Eighth Grade

Basic Skills Curriculum

To the Home Educator,

I am truly grateful that you have chosen one of our books to be part of your homeschooling journey.

At Plain and Not So Plain Academy, we believe our world has become unnecessarily complicated — and education often follows that same path. Learning at home should not feel chaotic, rushed, or overwhelming. It should be a meaningful, peaceful time shared between you and your child, not something they dread because of endless busywork or excessive repetition.

Our approach to schooling is intentionally simple. We focus on the foundations — reading, writing, and arithmetic — and encourage you to fill in the rest with real-life learning. By removing extra layers of complexity, we aim to take the stress and fear out of teaching and learning at home. When children are confident in the basics, they are better equipped to grow, explore, and enjoy learning.

This curriculum is designed to build confidence through steady practice without overload. As your student works through the worksheets, you may find they complete their work more efficiently and with less frustration, leaving room to pursue other interests, skills, and passions.

If your child struggles with a particular concept, slow down and do a few extra problems together until understanding comes. Keep it light. Keep it encouraging. If completing an entire worksheet at once feels overwhelming, break it into smaller sections and allow time for breaks. Progress matters far more than perfection.

This **8th Grade Basic Skills Curriculum** provides enough material for **35 weeks of instruction**, completed **four days per week**. I recommend using four days for structured worksheet learning and one day each week for real-life education — reading, projects, hands-on skills, and practical experiences. This schedule provides approximately **175 days of record-keeping instruction**.

Students should complete **four pages per day**. Also included are **21 weeks of vocabulary words** that every 8th grader should be familiar with, along with instructions for how to incorporate them into your weekly routine.

This year, focus on strengthening reading and writing skills while giving your student the freedom to explore their interests. Pay attention to what excites them. If one subject feels more challenging than another, spend a little extra time there and allow growth to happen naturally.

An answer key is available on my blog under the **Homeschooling** section. Due to the size of this book, it could not be included inside.

Thank you for choosing a simpler path in a complex world.

Week 1

Evan earns $8 an hour working at camp. The amount of money he earns changes, or varies, with the amount of time he works. If he works two hours, he earns $16 (2x8=16). How much would he earn if he works 8 hours? You would take 8 x n, n represents the number of hours worked. The letter n is a variable.

A symbol that represents a number is called a variable. An expression that contains a variable is called a variable expression. Variable expressions involving multiplication are usually written without the x sign.

8 x n is usually written 8n.

When you evaluate a variable expression, you substitute a number for the variable. This number is called the value of the variable.

Evaluate the expression 7n, when n=10. You just substitute the n for 10. 7x10=70

Your turn:

Evaluate each expression when x = 2, y=4, and z=6

8x=	11 +z	16÷ y
y-3	z+z+1	x+y+z

Evaluate each expression when a=3, b=12, c=4.

10a	12 c	b-2
3ac	a+5+b	5ba
acb	b÷c	a+13

REVIEW

Write the word form of 9.0003

Find the product of 3185x79

Is 430 divisible by 2? by 3? by 4? by 5? by 10?

Find the product of ½ x 4/5

Round 69.553 to the nearest tenth

Evaluate 4cd when c=5 and d=9

4321x123

842÷12 ROUND TO 3 DECIMAL PLACES

Kinds of sentences: Declarative and Interrogative

A group of words that expresses a complete thought is a sentence. All sentences begin with a capital letter. A declarative sentence makes a statement. It ends with a period. An interrogative sentence asks a question. It ends with a question mark.

Add the correct punctuation to the following sentences. Add a ? to the interrogative sentences and add . to the declarative sentences.

Can you help me find my dog
I'm going hiking today
Is the meeting for the park tonight
My son is going into the army
Evan plans to audition for the school play
Jadyn bought this dress in Africa
Are you going to work at camp this year
You are great at solving these problems
Evan, will you help me practice my lines
Have you met Michael yet
Who is hungry
The rescue vehicle zoomed past us
Can you hear the music from inside the car
Does anyone know French
This computer does not work
The desk was filled with tons of paper
Do your parents like to go out to eat
What is the weather forecast for tomorrow
Evan is going to shovel the driveway
How come we are not going to the park

Write declarative four times

_____
_____
_____
_____

Write interrogative four times

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Writing. You are going to answer the following question in paragraph form. Make sure to do a topic sentence, 3-4 supporting sentences, and then a final conclusion or wrap up sentence. Your teacher will be checking to make sure that you did it according to these instructions. Use all grammar rules: sentence capitalization, commas, correct punctuation, and correct spelling.

Where is one place in the world you would like to visit? Explain why you would want to visit this place, and what you would want to do or see once you arrive, include specific details and examples in your response.

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Your final requirement for the day is to read. Choose a book that is at your reading level. There are many book recommendations online or you can check out my blog www.plainandnotsoplain.com. Write the book title and how long you read for today. You should read for a minimum of an hour per day.

_____

amount read_____

Evan Maryon works at a camp store. He earns $287 per week in pay plus a bonus, or commission, on his total sales. Last week, Evan's commission was $102.67. What was his total pay for the week?

You can find his total pay for the week by evaluating the addition expression 287+ n, when n represents his commission for the week.

Evaluate 287 +n, when n is 102.67.

Your turn:

Evaluate each expression when a=94, b=21.4, c=12.86, and d=106.4.

17.7+b c+9.37 a-c

114.5-c d-b b-14.8

Evaluate each expression when x=26.4, y=163.5, z=39

z+88 103-z y+92

83-x x-7.6 x+y

Write the expression for:

the sum of 7.9 and a number n

a number x minus 270.5

42.62 added to a number p

REVIEW

Find the quotient 5 ÷ 1/5

Add 6.9+7.2+6.7+6.9+7.4

Find the difference 7/8- ½

Find the sum 69, 483+ 35,670

Find the product 4.93x1000

Find the product 542.987x100

83442.98÷100

321.90÷`1000

A sentence may do more than express a statement or ask a question. An exclamatory sentence expresses a strong emotion. It ends with an exclamation point. An imperative sentence gives a command or makes a request. It ends with a period.

Write the correct ending punctuation for the following sentences. Add an ! for a sentence expressing strong emotion. Add a . for a sentence that gives a command or makes a request.

Evan, keep your eyes on the ball
Watch out for that ball
Tell me more about your trip
Don't run in the halls
Clean up your desk please
What a terrific day it is
Oh no, you just sat in some wet paint
Let the baby sleep
Please come here
Hurry up
Turn in your paper next week
I can't wait to go on vacation
Go to sleep
Speak louder
That is my favorite song
Answer the phone nicely
I lose my keys
You did a great job
This movie is funny
I aced the test

Write the word exclamatory four times

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_____
_____
_____

Write the word imperative four times

_____
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_____

Writing. You are going to answer the following question in paragraph form. Make sure to do a topic sentence, 3-4 supporting sentences, and then a final conclusion or wrap up sentence. Your teacher will be checking to make sure that you did it according to these instructions. Use all grammar rules: sentence capitalization, commas, correct punctuation, and correct spelling.

Think about how daily life, from reading to playing games to communicating with others, has changed over the past hundred years because of technology. Using specific details and examples, explain how these advancements in technology have changed daily life.

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_____

amount read_____

Evaluate 2.5n when n=13.

First substitute 13 for n. 2.5n=2.5x13=32.5 * Remember when you multiply decimals, count the total number of decimal places in both factors and move the decimal that many places in the product.

In algebra it is important to know that you show both multiplication and division in a number of different ways. For each of these symbols represents multiplication:

7 x 5 (times sign) 7·5 (raised dot) 7(5) or (7)5 or (7)(5) –parentheses

These represent division:

42÷6 (division sign) $6\overline{)42}$ (division house) $\frac{42}{6}$ (fraction bar)

Evaluate $\frac{y}{x}$ when y=17.4 and x=6.

Write out the problem

```
      2.9
6 ) 17.4
    -12
     54
    -54
      0
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Your turn:

Choose all the words that are associated with multiplication:

factor sum quotient product

Choose all the words associated with division:

addend divisor quotient difference

Evaluate the following expression when w=63, x=1.6, y=62.72, and z=18.27

87x 12.4w z÷30 xy

$\frac{y}{32}$ y÷x 30.87÷w 3.4z

REVIEW

Write a variable expression for the following phrases:

15.2 times a number z

983.2 divided by a number n

a number y divided by 2.4

Find the product 35 x 3/5

Evaluate 16n when n=5.4

Give the place value of the underlined digit: 13,242.8<u>7</u>42

Find the difference 6 ¾ - 4 ½

Write the following number in words: 54,090,003

How many digits is in the number: 432,321,345,421,313

Every sentence must have a subject and a predicate to express a complete thought. The subject part tells who or what the sentence is about. The predicate part tells what the subject does or has. It can also describe what the subjects is or is like.

A sentence fragment is a group of words that lacks a subject, a predicate, or both. It does not express a complete thought.

In the following group of words, write S for a sentence and F for a fragment.

____The survivors of the plane crash showed great courage.
____Sat on the floor.
____Every Saturday their family goes hiking.
____Even the rain couldn't dampen their spirits.
____Rose in the air.
____Evan left his meal untouched.
____We went to the park for our picnic.
____The window was left open.
____Arrived late on Wednesday.
____Jadyn, who is coming at four, is going to watch you.
____Simply put, you are very bold!
____For the second time.
____Collin climb.
____They played their very best.
____She was preparing.
____She was preparing dinner for us to eat.
____I will be available at five o'clock.
____At five o'clock.
____Come to the park and play.

Add a subject, a predicate, or both to each fragment. Punctuate your sentences correctly.

Evan and Collin._____

Sat on the table._____ _____

At the park._____ _____

Looked at Lauren._____ _

Down at the river._____ _

Jadyn and her sister Brooklyn._____ _____

Writing. You are going to answer the following question in paragraph form. Make sure to do a topic sentence, 3-4 supporting sentences, and then a final conclusion or wrap up sentence. Your teacher will be checking to make sure that you did it according to these instructions. Use all grammar rules: sentence capitalization, commas, correct punctuation, and correct spelling.

Write about someone who has shared wisdom and experience with you. Explain why it is important to learn from the experience from others. Include specific details and examples in your response.

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_____

amount read_____

When you are solving a problem, you must first understand it. This means that you need to read the problem several times to determine what information is given, what you must find out, and whether any facts are needed.

Read the following paragraph for your exercises. Look back to find the answer that you need in the paragraph.

When Evan filled the gas tank on his car on August 5, the odometer showed 7251.3 mi. He bought 11.7 gal of gasoline. On August 18, Evan filled the gas tank with 14.2 gal of gasoline and the odometer showed 7588.7 mi.

How many gallons of gas did Evan buy on August 5?

11.7 gal	14.2 gal	(14.2-11.7) gal

How many miles did the car's odometer show on August 18?

7251.3 mi	7588.7 mi	(7251.3-7588.7) mi

Which of the following facts is not needed to find the number of miles traveled from August 5 to August 18?

a) the number of gasoline bought on August 5 and on August 18
b) the number of miles shown on the odometer on August 5
c) the number of miles shown on the odometer on August 18

Use the following paragraph to answer the questions below:

Collin bought a video game system for $600. The tax on the system was $30. He made a down payment of $100 and agreed to pay the remainder in 10 equal payments.

What is the paragraph about?

How much tax did Collin pay?

Identify any facts that are not needed to find the cost of the video game system and underline them.

Describe how you would find the amount of each payment.

REVIEW

Find the difference 16.53-0.5319

Evaluate a +b, when a= 7.65 and b=12.4

Find the product 13.87x1000

Solve 13521.8 ÷1000

4532x213

5266÷3 answer with a decimal to two places

Fill in commas where needed in the following numbers

4324564333 235346276542634

Which number is in the thousandths place in 432.46266

Both the subjects and predicate may consist of more than one word. The complete subject includes all the words in the subject part of the sentence. The complete predicate includes all of the words in the predicate part of the sentence.

COMPLETE SUBJECT COMPLETE PREDICATE

My younger sister likes grilled cheese for lunch.

The simple subject is the main word or group of words in the complete subject. The simple predicate is the main word or group of words in the complete predicate. The simple predicate is always a verb. A verb expresses an action or a state of being.

SIMPLE SUBJECT SIMPLE PREDICATE

My younger **sister** **likes** grilled cheese for lunch.

Draw a vertical line between the complete subject and the complete predicate.

North Carolina is one of the greatest states in North America.
The state has both mountains and oceans.
This state lies in the southeastern part of the United States.
The state has a coastline along the Atlantic Ocean.
It measures 42,922 miles.
The coastline is made up of many islands called the Outer Banks.
The state contains the largest home in America.
The home is called The Biltmore Estate.
North Carolina's natural rivers fill with water after heavy rain.
Rainfall is very prevalent in the western part of the state.

Draw one line under the simple subject and two lines under the simple predicate.

The mountains cover the western part of North Carolina.
North Carolina has many unique features.
Bears live in North Carolina.
The black bear is a common animal in the state.
Bears like to get into trash cans.
They are curious animals.
Bears pose no threats to people in most cases.
Hunting dogs are popular in keeping bears away.
A dogs bark will generally keep them away.
Four hundred twelve types of plants are in the green house.

Writing. You are going to answer the following question in paragraph form. Make sure to do a topic sentence, 3-4 supporting sentences, and then a final conclusion or wrap up sentence. Your teacher will be checking to make sure that you did it according to these instructions. Use all grammar rules: sentence capitalization, commas, correct punctuation, and correct spelling.

Community parks, state parks, and national parks provide a wide variety of interesting activities. Write about an enjoyable way to spend time outdoors. Using specific details and examples, explain why someone might find that activity enjoyable.

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_____

amount read_____

week 2

Jadyn's height is 5 ft 2 in. and Brooklyn's height is 4ft 11 in. What is the relationship between their heights?

a) Jadyn is taller than Brooklyn
b) Jadyn is shorter than Brooklyn
c) Jadyn is the same height as Brooklyn

When you compare any two measurements, such as heights, weights, or ages, there are only three possible relationships between them. The comparison property of numbers summarizes these relationships.

In words	In symbols
a is greater than b	a>b
a is less than b	a<b
a is equal to b	a=b

The symbols < > are called inequality symbols.

Your turn:

Write each sentence in symbols.

Seventy-five is greater than fifteen

Seven and forty-nine hundredths is less than eight and four tenths.

Write each statement in words

5002<5200

9.03>3.2

Write < > =

11,388_____11,614 78.88____78.8 93.9___93.9

Write in order from least to greatest:

23.87 2.38 2.0

REVIEW

Find the quotient in 389,760÷96

Find the sum of 657.2+194+34.91

Round 9.975 to the nearest hundredth

Find the sum 6/7+ 4/7

Replace the ____with < > = 1.72_____1.072

Find the product 462x709

Evaluate the expression 2yz when y=3 and z=1.2

Write the following number in digits: four million, two hundred twenty-three thousand, seventeen.

A sentence may have more than one simple subject or simple predicate. A compound subject is two or more simple subjects that have the same predicate. The subjects are joined by and, or, either…or, neither…nor, or but.

North Carolina and **Georgia** are states in the south.

A compound predicate is two or more simple predicates, or verbs, that have the same subject. The verbs are connect by and, but, or, either….or, neither….nor, or but.

Many sisters either **enjoy** or **fight** with each other.

Each of these sentences has either a compound subject, a compound predicate or both. Circle the simple subjects and underline the simple predicates.

Corn and wheat grow in Michigan.
Farmers harvest and sell corn for profit.
Autumn and Madelyn showed us how to play the game.
We ate and slept in the tent.
The table and the chair are both green.
North Carolina and South Carolina have similar climates.
Either orange or blue clashes with this color.
You will either like carrots or hate them.
Bears and deer have been spotted in the forest.
Kittens and puppies play and sleep most of the day.
Crabs and lobster crawl along the ocean floor.
Students study in the classroom and exercise in the gym.
One large box or several small containers hold much food.
Evan and his family swam and hiked last year.
Hurricanes or other strong winds can rip up trees.
The builder measured and cut the wood for our home.
Walking and running are good forms of exercise.
You can either walk or ride your bike to the park.
Carrots and cabbage are delicious tasting vegetables.
You can either drink this or eat that for dinner.

Write a sentence with a compound subject.

_____

Write a sentence with a compound predicate

_____

Writing. You are going to answer the following question in paragraph form. Make sure to do a topic sentence, 3-4 supporting sentences, and then a final conclusion or wrap up sentence. Your teacher will be checking to make sure that you did it according to these instructions. Use all grammar rules: sentence capitalization, commas, correct punctuation, and correct spelling.

What are the advantages of earning your own money to purchase something special? Explain the advantages using specific details and examples in your response.

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_____

amount read_____

Commutative Property of Addition

Changing the order of the terms does not change the sum.

In Arithmetic	In Algebra
26+10=10+26	a+b=b+a

Lauren travels 17 mi from her home to work. After work she travels the same 17 mi from work to home. Reversing the order does not change the distance that she commutes. This idea is similar to the commutative property of addition.

Associative property of addition.

Changing the grouping of terms does not change the sum.

In Arithmetic	In Algebra
(26+10) +5= 26+ (10+5)	(a+b)+c=a+(b+c)

You can sit between two friends and say the same thing first to one and then to the other. The result is the same no matter which friend you speak to first. This idea of associating first with one friend and then with the other is similar to the associative property of addition.

Parentheses show you how to group the numbers in an expression. Do the work within the parentheses first.

The number 0 has a special addition property. When 0 is added to any number, the sum is identical to the original number. For this reason, the number 0 is called the additive identity.

Identity Property of Addition

The sum of any number and zero is the original number.

In arithmetic	In algebra
13+0=13	b +0=b

Your turn:

Replace each ____with the number that makes the statement true.

43+15=15+_____	0+3.2=3.2+_____
(7+5)+2=7+(_____+2)	_____+8.3=8.3+29

REVIEW

Find the quotient 6.69÷5.4

Find the sum mentally 54+32+46

Find the average of the following scores: 43 22 42 73 30

2+3+3+2+2+8+23+8+23

323-177

8732-2789

A simple sentence has one subject and one predicate. The subject and the predicate in a simple sentence may be simple or compound.

SUBJECT	PREDICATE
Evan	fed the dog.

Evan and Collin fed and walked the dog.

A compound sentence contains two or more simple sentences joined by a comma and a coordinating conjunction. (and, but, either….or, neither…nor) or by a semicolon.

Evan fed the dog, and he walked him.

Evan's dog likes to run; Collin's dog prefers to sleep.

Two or more simple sentences joined incorrectly result in a run on sentence. Correct a run on sentence by writing separate sentences, by adding a comma, conjunction or by adding a semicolon.

Lauren practiced every day for the recital she played perfectly.(run-on)
Lauren practiced every day for the recital. She played perfectly.(separated)
Lauren practiced every day for the recital, and she played perfectly.(separated with comma and conjunction)
Lauren practiced every day for the recital; she played perfectly.(joined by semicolon)

Write simple, compound, or run-on for the type of sentence.

_____The horns blared, and the king entered the room.
_____Mustard makes French fries taste better.
_____I walked and walked for days.
_____You can buy your tickets in advance, or you can buy them at the concert.
_____Radar detects objects in darkness and bad weather.
_____Evan played video games for days he would not stop.
_____Collin found the light bulb he couldn't find a ladder.
_____Your cat is fat.
_____The choir sang and danced for the audience.
_____The first modern computer was built in 1945; it processed 5,000 calculations per minute.

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Your assignment is to design a neighborhood of the future. Explain what you would include in a neighborhood of the future and why. Include specific details and examples in your design.

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_____

amount read_____

Multiplication, like addition, has commutative and associative properties.

Commutative property of multiplication.

Changing the order of the factors does not change the product.

IN ARITHMETIC	IN ALGEBRA
15x30=30x15	ab=ba

Associative property of multiplication

Changing the grouping of the factors does not change the product.

IN ARITHMETIC	IN ALGEBRA
(15x30) x 2= 15 (30x2)	(ab)c= a (bc)

Identity property of multiplication

The product of any number and 1 is the original number.

IN ARITHMETIC	IN ALGEBRA
15x1=15	a˙1=a

Multiplication property of zero

The product of any number and zero is zero.

IN ARITHMETIC	IN ALGEBRA
16x0=0	a˙0=0

Your turn: Use the properties to find each product mentally if you can.

2˙32˙5 1˙89

(0.6)(1.1)(5) 22˙5˙0

26˙38=38˙_____ (5˙_____)˙4=5˙(6˙4)

REVIEW

6 ft 4 in=_____in

Solve mentally: 12(5)(0)(8)

Find the sum 3 2/3 + 4 5/6

Is 6230 divisible by 2?_____by 3?_____by 4?_____by 5?_____by 10?_____

Answer < >

2.04_____2.040 33.9_____33.8

432.89_____432.98 13.3_____133.0

6321x89

4214-1789

Review

Draw a vertical line between each complete subject and complete predicate.

A galaxy is a system of stars, dust, and gas.
Evan walked out the door, and everyone waved good-bye.
Amphibians and reptiles are cold-blooded animals.
Ruby was chasing after the bear and the deer.
The cats clawed and chewed at the bone.
Evan and Collin are going hiking today.
Both my mom and dad are going to be attending the party.
The respiratory system provides the body with oxygen and rids it of carbon dioxide.
Evan wore a blue shirt and blue jeans.
Warm air expands and rises, and cool air descends.

Write declarative, interrogative, imperative, or exclamatory

_____Which person is still sick

_____Evan was promoted to head of the committee

_____Have you ever tried fly-fishing

_____This ride is making me dizzy

_____Please come home immediately

_____Watch out for that flying bat

_____Ouch that hurts

_____Come over after lunch

_____Bring me a glass of water, please

Write if simple or compound sentence.

_____The nail had punctured the right front tire.

_____We decided on the Chinese food, and Evan ordered Mexican food.

_____Outdoor sports are great, but only in the summer.

_____Are these images all right, or will you need others?

Writing. You are going to answer the following question in paragraph form. Make sure to do a topic sentence, 3-4 supporting sentences, and then a final conclusion or wrap up sentence. Your teacher will be checking to make sure that you did it according to these instructions. Use all grammar rules: sentence capitalization, commas, correct punctuation, and correct spelling.

People often credit their successes to having a good attitude. Explain the benefits for having a good attitude, even during a difficult time. Provide examples from your own experience or from having witnessed this in others.

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_____

amount read_____

Before doing a computation, you should inspect the problem and decide whether to use mental math, paper and pencil, or a calculator.

Mental math may be most efficient when you see sums of ten or products of ten, when you do not need to rename, or when you can add on or count back easily.

Paper and pencil may be most efficient when the computation seems simple or involves numbers with few digits.

A calculator may be most efficient when the computation involves many numbers. You may also decide to use a calculator when accuracy is very important.

Your turn:

Write whether it is most efficient to find each answer using mental math, paper and pencil, or a calculator. Then find each answer using the method that you chose.

$13 \cdot 5$

$84 \div 6$

$532(0.9)$

$10.93 - 2.982$

$45.7 \div 100$

$6.6 \div 2.75$

$(0.4)(0.7)$

Mom spent $2.70 on 3 packages of seeds. How much did each seed packet cost?

Let's do a review. If you don't know these efficiently, I would recommend printing off extra copies in the back of this book and doing them every day until you get them down. It is very important that you know these quite quickly. It will help hugely in your math skills.

9 x1	2 x2	5 x1	4 x3	0 x0	9 x9	3 x5	8 x5	2 x6	4 x7
5 x6	7 x5	3 x0	8 x8	1 x3	3 x4	5 x9	0 x2	7 x3	4 x 1
2 x3	8 x6	0 x5	6 x1	3 x8	1 x 1	9 x0	2 x8	6 x4	0 x7
7 x7	1 x4	6 x2	4 x5	2 x4	4 x 9	7 x0	1 x2	8 x4	6 x5
3 x2	4 x6	1 x9	5 x7	8 x2	0 x8	4 x2	9 x8	3 x6	5 x5
8 x9	3 x7	9 x7	1 x7	6 x0	0 x3	7 x2	1 x5	7 x8	4 x0
8 x3	5 x2	0 x4	9 x5	6 x7	2 x7	6 x3	5 x4	1 x0	9 x 2
7 x 6	1 x 8	9 x6	4 x 4	5 x3	8 x1	3 x3	4 x8	9 x3	2 x0
8 x0	3 x1	6 x8	0 x9	8 x7	2 x 9	9 x4	0 x1	7 x4	5 x8
0 x6	7 x1	2 x5	6 x9	3 x9	1 x6	5 x0	6 x6	2 x1	7 x9

A noun names a person place, thing, or idea. When a word names a specific person, place, thing or idea it is called a proper noun. The first word and all other important words in a proper noun are capitalized. When a word names any "regular" person, place, thing, or idea it is called a common noun. They are not capitalized.

	PERSON	PLACE	THING	IDEA
proper noun:	Amy Maryon	America	Bill of Rights	Christianity
common noun:	woman	country	document	religion

Rewrite the following sentences. Capitalize any proper nouns and circle any common nouns.

A baby named martin luther king jr. was born in atlanta, georgia.

_____

his mother, alberta william king, was a teacher.

_____

king skipped two grades at booker t. Washington high school.

_____

king earned the degree of bachelor of divinity at crozner.

_____

king chose to go to boston university.

_____

king and coretta scott married a few years after their first encounter.

_____

_____

coretta and martin luther king jr. had four children: yolanda denise, martin luther iii, bernice albertine, and dexter.

_____

_____

Writing. You are going to answer the following question in paragraph form. Make sure to do a topic sentence, 3-4 supporting sentences, and then a final conclusion or wrap up sentence. Your teacher will be checking to make sure that you did it according to these instructions. Use all grammar rules: sentence capitalization, commas, correct punctuation, and correct spelling.

Thoughtful acts can take many forms, such as unexpected help or even just a kind word. Explain how a thoughtful act can benefit those involved. Use specific details and examples in your response.

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Your final requirement for the day is to read. Choose a book that is at your reading level. There are many book recommendations online or you can check out my blog www.plainandnotsoplain.com. Write the book title and how long you read for today. You should read for a minimum of an hour per day.

_____

amount read_____

Week 3

You can write a multiplication expression in which all the factors are the same in a shortened form called exponential form.

$3 \bullet 3 \bullet 3 \bullet 3 \bullet 3 \bullet 3 = 3^6$

If you were to multiply them all out---use a calculator, you would get 729. The number 3^6 is called a power of 3. The exponent 6 shows that the base 3 is used as a factor six times.

You read 3^6 as three to the sixth power or the sixth power of three

You read 2^2as two to the second power or two squared

You read 4^3 as four to the third power, or four cubed.

Any number to the first power is equal to that number, as in $4^1=4$. The number 1 to any power equals 1, as in $1^8=1$

You can use exponents with variables as well as with numbers. For instance you can write $x \bullet x \bullet x \bullet x \bullet x$ as x^5. You read x^5 as a number x to the fifth power or the fifth power of a number x.

Your turn:

Write an expression for each phrase:

three to the fifth power

a number x to the sixth power

six times a number x, cubed

Give the exponential form for each expression:

(7)(7)(7)(7)(7)

$5 \bullet d \bullet d \bullet d \bullet d$

$4y \bullet 4y \bullet 4y \bullet 4y$

Find the answer:

7^3 10^4 11^2

9 x1	2 x2	5 x1	4 x3	0 x0	9 x9	3 x5	8 x5	2 x6	4 x7
5 x6	7 x5	3 x0	8 x8	1 x3	3 x4	5 x9	0 x2	7 x3	4 x 1
2 x3	8 x6	0 x5	6 x1	3 x8	1 x 1	9 x0	2 x8	6 x4	0 x7
7 x7	1 x4	6 x2	4 x5	2 x4	4 x 9	7 x0	1 x2	8 x4	6 x5
3 x2	4 x6	1 x9	5 x7	8 x2	0 x8	4 x2	9 x8	3 x6	5 x5
8 x9	3 x7	9 x7	1 x7	6 x0	0 x3	7 x2	1 x5	7 x8	4 x0
8 x3	5 x2	0 x4	9 x5	6 x7	2 x7	6 x3	5 x4	1 x0	9 x 2
7 x 6	1 x 8	9 x6	4 x 4	5 x3	8 x1	3 x3	4 x8	9 x3	2 x0
8 x0	3 x1	6 x8	0 x9	8 x7	2 x 9	9 x4	0 x1	7 x4	5 x8
0 x6	7 x1	2 x5	6 x9	3 x9	1 x6	5 x0	6 x6	2 x1	7 x9

Concrete nouns name things that can be experience with any of the senses—touch, sight, hearing, smell, and taste. Abstract nouns name qualities, or feelings that cannot be experienced with any of the five senses.

Abstract noun:	sadness	truth	freedom	intelligence
Concrete noun:	frown	book	rain	table

Underline each concrete noun and circle each abstract noun.

My dad tells me cleanliness is important.
My uncle, aunt, and cousin live in a large home.
A commercial pilot must have a lot of flying experience.
The playful beagle liked to chase its tail.
The hardworking farmer was disappointed in the drought.
Clouds covered the sun and the sky.
My sister's bravery during the sickness was amazing.
The college students live in a dormitory.
The huge waves crashed onto the shore.
Many people voted in the election last year.
The newspaper had a big article on the economy.
At the traffic light, the driver pressed the brake.
A well-balanced diet helps to maintain good health.
The athlete possessed raw talent and ability.
Unable to find the toy, the baby cried in frustration.
The bird in the tree held the interest of the cat.
The spider spun its web.
I am very sad about the truth.
Evan is an honest person.
Patience is something I have to work on.

Write a declarative sentence with concrete nouns.

_____

_____

Write an interrogative sentence with abstract nouns

_____

_____

Writing. You are going to answer the following question in paragraph form. Make sure to do a topic sentence, 3-4 supporting sentences, and then a final conclusion or wrap up sentence. Your teacher will be checking to make sure that you did it according to these instructions. Use all grammar rules: sentence capitalization, commas, correct punctuation, and correct spelling.

Is it better to take risks and perhaps make some mistakes or remain cautious and risk nothing? Explain using specific details and examples in your response.

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Your final requirement for the day is to read. Choose a book that is at your reading level. There are many book recommendations online or you can check out my blog www.plainandnotsoplain.com. Write the book title and how long you read for today. You should read for a minimum of an hour per day.

_____

amount read_____

Order of operations.

In math you must perform operations in an agreed-upon order to make sure that an expression has only one answer.

Order of operations:

1. First do all work inside any parentheses.
2. Then find each power.
3. Then do all multiplications and divisions in order from left to right.
4. Then do all additions and subtractions in order from left to right.

Remember PEMDAS—(parentheses, exponents, multiplication, division, addition, subtraction)

Your turn:

$9^2 + 3 \bullet 5$

$7^2 - 14 + 5 \bullet 2$

$9 + 45 \div 9 \bullet 8$

$14 + (3^3 - 7)$

Find each answer. Work inside the parentheses first. Then work on the square brackets.

$[(12-4) \bullet 2 + 11] \div 3$

$48 - [36 \div (4+5)] + 11$

Is the following true or false. Then mark each false statement by inserting parentheses where necessary.

$4 \bullet 5 + 6 = 44$

$24 - 4 \bullet 2 = 40$

$4 \bullet 4^2 \div 2 = 32$

$12 - 2^2 \div 4 = 2$

9 x1	2 x2	5 x1	4 x3	0 x0	9 x9	3 x5	8 x5	2 x6	4 x7
5 x6	7 x5	3 x0	8 x8	1 x3	3 x4	5 x9	0 x2	7 x3	4 x 1
2 x3	8 x6	0 x5	6 x1	3 x8	1 x 1	9 x0	2 x8	6 x4	0 x7
7 x7	1 x4	6 x2	4 x5	2 x4	4 x 9	7 x0	1 x2	8 x4	6 x5
3 x2	4 x6	1 x9	5 x7	8 x2	0 x8	4 x2	9 x8	3 x6	5 x5
8 x9	3 x7	9 x7	1 x7	6 x0	0 x3	7 x2	1 x5	7 x8	4 x0
8 x3	5 x2	0 x4	9 x5	6 x7	2 x7	6 x3	5 x4	1 x0	9 x 2
7 x 6	1 x 8	9 x6	4 x 4	5 x3	8 x1	3 x3	4 x8	9 x3	2 x0
8 x0	3 x1	6 x8	0 x9	8 x7	2 x 9	9 x4	0 x1	7 x4	5 x8
0 x6	7 x1	2 x5	6 x9	3 x9	1 x6	5 x0	6 x6	2 x1	7 x9

Compound nouns are nouns that are made up of two or more words. Compound nouns can be one word like baseball or snowmobiles, or more than one word like rocking chair or home runs. Other compound nouns have two or more words that are joined by hyphens, hand-me-downs or fathers-in-law.

A possessive noun names who or what has something. Possessive nouns can be common or proper nouns, singular, or plural, compound or not. To form possessive of all singular nouns and of plural nouns not ending in –s, add an apostrophe and –s. To form the possessive of plural nouns already ending in –s add only an apostrophe.

boy's boss's puppies'

Write in the blank the singular form of each compound noun.

jelly beans_____

nutcrackers_____

funny bones_____

workshops_____

bills of health_____

Complete each sentence by writing the correct possessive form of the nouns in parentheses.

_____hands felt cold and clammy. (Evan)

The young sailor sounds the _____horn. (ship)

The _____weight is more than one ton.(Liberty Bell)

The hook caught in the _____mouth. (fish)

_____largest city is Chicago. (Illinois)

The _____route never changed. (bus)

After the touchdown, the _____cheering was deafening.(fans)

I can do my homework on my _____computer.(parents)

_____test scores improved dramatically.(Luis)

Writing. You are going to answer the following question in paragraph form. Make sure to do a topic sentence, 3-4 supporting sentences, and then a final conclusion or wrap up sentence. Your teacher will be checking to make sure that you did it according to these instructions. Use all grammar rules: sentence capitalization, commas, correct punctuation, and correct spelling.

Everyone has a talent or skill. Identify a talent or skill you have. Explain how you develop and use it. Use specific details and examples in your response. If you don't use your talents or skills, how can you start implanting ways to use them?

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_____

amount read_____

Evaluate each expression when a=3 and b=8

7a 4b 25+a

27÷a b÷2 ab

Replace _____with < >

14,259_____14,312 0.12_____0.012

Write in order from least to greatest:

12,456 5642 12,375

0.62 0.078 0.102

Solve: 3^5 1^8 10^4

Solve when a=3, b=5, and c=6

b^2= $4c^3$= $(4b)^2$ = $\frac{b+a}{c-2}$=

(4)(0.7)(2.5)= 2.9+0+4.1=

Tell whether it is more efficient to find each answer with mental math, paper and pen, or calculator

56+87_____1200÷6_____(79)(6.32)_____

Evaluate each expression when x=45 and y=9

8y 23+x x÷y

Replace each_____with < > =

2324_____2243 3.16_____3.106 2.50_____2.5

Write in order from least to greatest.

7623 779 7073

8.65 0.0522 0.832

Use the properties of addition and multiplication to find each answer mentally.

15•8•0 (50)(9)(0.2)

Tell whether it is most efficient to find each answer mentally, paper and pencil, or calculator and then solve in that method.

800+755_____ 8(17)_____ 13.58÷1.4_____

Evan bought two CD's for $9.99 each and a video for $13.95. Ear buds cost $8.95. Evan gave the clerk two $20 bills.

What is the paragraph about?

How much did Evan pay for the video?

Identify any facts not needed to find the total amount of Evan's purchase.

Describe how you would find the amount of change Evan received.

Collective nouns name a group that is made up of individuals.

The **family** struggled through the **crowd** to see the **band.**

COLLECTIVE NOUNS

class family herd audience staff team swarm

They can either be singular or plural meaning. When referring to the group as a unit, the noun has a singular meaning and takes a singular verb. When referring to the individual members of the group, the noun has a plural meaning and takes a plural verb.

The team works on its offensive plays.

The team goes to their individual lockers.

Underline the verb form in parentheses that best completes each sentence.

The book club (discusses, discuss) their personal opinions of the plot.
The class (is , are) going on a bus to the art museum.
The choir from Mountain Valley High School (sings, sing) the loudest.
The elephant (make, makes) a thundering noise during a stampede.
The football team (boasts, boast) an excellent game.
The band (puts, put) their instruments away after practice.
The jury (argues, argue) among themselves over the verdict.
The audience (gives, give) the singer a standing ovation.
The class (reports, report) on their chosen topic.
The wolf pack(decreases, decrease) in size after a long winter.
The flock(flies, fly) in a southerly direction.
The family (sleep, sleeps) soundly in their rooms.
The track team (runs, run) well as a whole.
The team(knows, know) what to do.
The cattle herd(roams, roam) the countryside all day.
The mob of protesters (is, are) getting out of hand.
The band (marches, march) to the beat of the drum.

Write two plural nouns_____and_____

Write two singular nouns_____and_____

Writing. You are going to answer the following question in paragraph form. Make sure to do a topic sentence, 3-4 supporting sentences, and then a final conclusion or wrap up sentence. Your teacher will be checking to make sure that you did it according to these instructions. Use all grammar rules: sentence capitalization, commas, correct punctuation, and correct spelling.

Some people enjoy public speaking while others are frightened by it. Using specific details and examples, explain how you feel about public speaking.

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amount read_____

To multiply powers having the same base, add the exponents.

$a^m+a^n=a^{m+n}$

$4^3 \bullet 4^2=4^5$

$w^6 \bullet w=w^7$

You can use the products of powers to simplify an expression. You simplify an expression by performing as many of the indicated operations as possible.

To simplify some expressions, you might need to use the product of powers rule together with the commutative and associate properties.

$6a^2 \bullet 4a^3$
$(6 \bullet 4)(a^2 \bullet a^{3)}$
$(24)(a^{2+3})$
$24a^5$

$(5n)(7n^2)$
$(5 \bullet 7)(n \bullet n^2)$
$(5 \bullet 7)(n^1 \bullet n^2)$
$(35)(n^{1+2})$
$35n^3$

You can also simplify multiplication expressions that involve more than one variable.

$(7x)(2y)$
$(7 \bullet 2)(x \bullet y)$
$14xy$

$5y \bullet 3x \bullet 2y$
$(5 \bullet 3 \bullet 2)(y \bullet x \bullet y)$
$30xy^2$

Your turn: Simplify

$c^6 \bullet c^4$

$n^2 \bullet n$

$4d^2 \bullet 3d^3$

$(2c)(14d)$

$(7w)(4w)(2y)$

$66b^2(5b)$

56÷7=	15÷3=	12÷6=	8÷2=	63÷7=	0÷4=
14÷2=	42÷6=	6÷1=	16÷8=	20÷5=	49÷7=
36÷4=	64÷8=	0÷3=	54÷9=	4÷2=	48÷8=
18÷9=	3÷1=	35÷5=	8÷4=	72÷8=	6÷6=
0÷5=	42÷7=	2÷2=	36÷9=	7÷1=	12÷3=
16÷2=	30÷5=	0÷1=	28÷7=	4÷4=	40÷8=
3÷3=	32÷8=	45÷5=	4÷1=	20÷4=	15÷5=
56÷8=	5÷1=	0÷8=	6÷2=	45÷9=	0÷6=
6÷3=	21÷7=	0÷9=	7÷7=	12÷4=	18÷6=
63÷9=	18÷3=	27÷9=	24÷3=	0÷2=	28÷4=
21÷3=	16÷4=	24÷8=	10÷5=	30÷6=	1÷1=
18÷2=	27÷3=	32÷4=	9÷1=	35÷7=	40÷5=
10÷2=	8÷8=	48÷6=	5÷5=	8÷1=	24÷6=
25÷5=	9÷3=	81÷9=	24÷4=	14÷7=	12÷2=
9÷9=	54÷6=	72÷9=	0÷7=	2÷1=	36÷6=

A contraction is a word made by combining two words into one and leaving out one more letters from the two words. An apostrophe shows where the letters have been omitted.

can+not=can't singer+is=singer's

Most plural and possessive nouns and certain contractions end with the letter-s. As a result, they sound alike, but their spellings and meanings are different.

PLURAL NOUN	The singers wrote the song.
PLURAL POSSESSIVE NOUN	The singers' song is enjoyable.
SINGULAR POSSESSIVE NOUN	We listened to the singer's song.
CONTRACTION	The singer's the songwriter.

Write pl. above each plural noun (not including plural possessives) poss. above each possessive noun, and con. above each contraction.

Barack Obama's the first African American president.

Evan's birthplace was in Michigan.

As a boy and young, Evan spent many summer's day in Michigan playing

Evan made many friends there.

The homeschool groups in the region were among his group of friends.

Some of his friends' adventures were quite daring.

North Carolina's one of the states he has lived in.

At age nineteen, the young man's thoughts wandered overseas.

Circle the correct word in parentheses.

Some of Evan's greatest (story's, stories) were written when he was a young adult.

Evan also journeyed to (France's, Frances') cities.

The writer made several (trips, trip's) to the ocean as a boy.

(Boats, Boats') always appealed to the Maryon family.

The Maryon family put down their (roots, root's) in North Carolina.

Writing. You are going to answer the following question in paragraph form. Make sure to do a topic sentence, 3-4 supporting sentences, and then a final conclusion or wrap up sentence. Your teacher will be checking to make sure that you did it according to these instructions. Use all grammar rules: sentence capitalization, commas, correct punctuation, and correct spelling.

There is a common saying, "Don't judge a book by its cover." Think of something that has an unattractive appearance but that has special meaning to someone for other reasons. It might be an old car, a well-used toy, a faded photograph, or something else. Identify the object and explain why it has special meaning.

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Your final requirement for the day is to read. Choose a book that is at your reading level. There are many book recommendations online or you can check out my blog www.plainandnotsoplain.com. Write the book title and how long you read for today. You should read for a minimum of an hour per day.

_____

amount read_____

week 4

The distributive property allows you to multiply each term inside a set of parentheses by a factor outside the parentheses. You say that multiplication is distributive over addition and over subtraction.

IN ARITHMETIC	IN ALGEBRA
3(80+10)=3(80)+3(10)	a(b+c)=ab+ac
3(80-10)=3(80)-3(10)	a(b-c)=ab-ac

Use the distributive property to find each answer mentally.

8•36-8•2	7(108)
8(36-16)	7(100+8)
8(20)	700+56
160	756

You can also simplify variable expressions

Simplify 3 (n+2) equals 3n +6

Your turn:

Use the distributive property to find each answer mentally.

7(68)+7(12) 9(197)

Simplify

5(n+12) 9 (10+a) 8(6m+9)

4 (4w-6) 3(9-4a) 5(3c+7)

56÷7=	15÷3=	12÷6=	8÷2=	63÷7=	0÷4=
14÷2=	42÷6=	6÷1=	16÷8=	20÷5=	49÷7=
36÷4=	64÷8=	0÷3=	54÷9=	4÷2=	48÷8=
18÷9=	3÷1=	35÷5=	8÷4=	72÷8=	6÷6=
0÷5=	42÷7=	2÷2=	36÷9=	7÷1=	12÷3=
16÷2=	30÷5=	0÷1=	28÷7=	4÷4=	40÷8=
3÷3=	32÷8=	45÷5=	4÷1=	20÷4=	15÷5=
56÷8=	5÷1=	0÷8=	6÷2=	45÷9=	0÷6=
6÷3=	21÷7=	0÷9=	7÷7=	12÷4=	18÷6=
63÷9=	18÷3=	27÷9=	24÷3=	0÷2=	28÷4=
21÷3=	16÷4=	24÷8=	10÷5=	30÷6=	1÷1=
18÷2=	27÷3=	32÷4=	9÷1=	35÷7=	40÷5=
10÷2=	8÷8=	48÷6=	5÷5=	8÷1=	24÷6=
25÷5=	9÷3=	81÷9=	24÷4=	14÷7=	12÷2=
9÷9=	54÷6=	72÷9=	0÷7=	2÷1=	36÷6=

An appositive is a noun that is placed next to, or in apposition to another noun to identify it or add information to it.

Greg Maryon's wife, **Amy** was a homemaker.

An appositive phrase is a group of words that includes an appositive and other words that describe the appositive.

Stephen, **our tenth child**, was the only Maryon to attend college.

An appositive phrase that is not essential to the meaning of the sentence is set off from the rest of the sentence by commas. However if the appositive is essential to the meaning of the sentence, commas are not used.

Underline each appositive, or appositive phrase, and circle the noun it identifies.

Collin Maryon, leader of the department, is quick to get all the work finished on time.

Washington's picture is on a coin, the quarter.

John Adams succeeded the president, George Washington, as president of the United States.

Brent's wife, Danielle, was well-read and outspoken.

Thomas Jefferson wrote the first draft of a historic document, the Declaration of Independence.

Lincoln, one of our greatest presidents, had to lead the country during a bloody war.

Lincoln earned the nickname the "Great Emancipator."

The assassin John Wilkes Booth was accused of shooting and killing Lincoln one month after he began his second term.

The United States battleship Maine blew up in Cuba's harbor during William McKinley's presidency.

Writing. You are going to answer the following question in paragraph form. Make sure to do a topic sentence, 3-4 supporting sentences, and then a final conclusion or wrap up sentence. Your teacher will be checking to make sure that you did it according to these instructions. Use all grammar rules: sentence capitalization, commas, correct punctuation, and correct spelling.

What is something you would like to accomplish in the future? Perhaps you would like to learn how to play an instrument, graduate at the top of your class, or visit the ocean. Identify one thing you would like to accomplish and include specific details and examples to help explain why it is important to you.

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_____

amount read_____

In mathematics you can simplify an expression by combining like terms. The expression 2n+5m+4n contains three terms: 2n, 5m, and 4n. The terms 2n and 4n have identical variable parts, so they are called like terms. The terms 2n and 5m have different variable parts, so they are called unlike terms. The process of adding or subtracting like terms is often called combining like terms. Unlike terms cannot be combined.

4n-n your answer is 3n

2n+4n your answer is 6n

3n +4+2n your answer is 5n +4

9x +7x your answer is 16x

11c+c-8b your answer is 12c-8b

Your turn: Simplify

6x +8x	12w-w	14 p-5p	9y-y
6n+9n+4	6k+3K-6	8y-7y+4	2a+4b+5b
3x+7x+9y	5n+12n+n	m+4m+6m	5x+2x-5

REVIEW

Greg drove 255 mi in four days and used 10 gal of gasoline. Identify any facts that are not needed to find miles per gallon.

Evaluate x^4 when x=5

Simplify 4c+7c-5d

Find the sum ¾ +7/8

Find the product (0.37)(1000)

Use the distributive property to solve mentally:

5(107) 6•12+6•8

2 (x+9) 8(7-5x) 7x-4x-5y

Underline each common noun once and each proper noun twice. Write in blank plural, possessive, contraction, or appositive to identify the bold word.

_____**Neil Armstrong's** a famous astronaut.

_____Evan's an excellent hiker, and his **brother's** a great swimmer.

_____The girl's teacher taught them **volleyball's** finer points.

_____My grandmother was born on her **grandparent's** farm in western Michigan.

_____Collin, my best **friend**, is moving to Tampa, Florida.

_____The campers took backpacks and **flashlights** when they camped out.

_____**Lauren's** going to try out for the next theater production.

_____Mrs. Beele, the children's **teacher**, has a keen sense of fashion.

_____The **fullbacks'** helmet fell off when he was tackled.

Circle the correct form of the noun in parentheses.

My dad's scrambled (eggs, eggs') were too runny to eat.

I love to eat my (sisters' sisters) cakes.

Many tourists are attracted to (Hawaii's' Hawaii's) beaches.

The (newspapers, newspapers') headlines were about the storms in the South.

My (friend's friends) and I had ice cream for a treat.

Draw a vertical line between the subject and predicate.

I like to play at the park.

Sharon and Ron went to the mall for their Christmas shopping.

My parents' favorite singing group was the Stalagmites.

The collie chewed up the toys.

The chicken pox attacked both of the children's classes.

Writing. You are going to answer the following question in paragraph form. Make sure to do a topic sentence, 3-4 supporting sentences, and then a final conclusion or wrap up sentence. Your teacher will be checking to make sure that you did it according to these instructions. Use all grammar rules: sentence capitalization, commas, correct punctuation, and correct spelling.

Some people believe owning a pet is important, while others do not. Using specific details and examples to support your position, argue for or against owning a pet.

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Your final requirement for the day is to read. Choose a book that is at your reading level. There are many book recommendations online or you can check out my blog www.plainandnotsoplain.com. Write the book title and how long you read for today. You should read for a minimum of an hour per day.

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amount read_____

Using a four step plan.

1. UNDERSTAND-read and understand the problem.
2. PLAN-make a plan and choose a problem solving strategy and an operation to solve
3. WORK-carry out the plan and do any calculations
4. ANSWER—check any calculations and answer the problem.

Two weeks ago, Evan worked 35 hours. Last week he worked 31 hours. Evan earns an hourly wage of $7.15. How much did Evan earn during these two weeks?

1. Find-the total amount Michael earned during two weeks.
2. Add to determine the number of hours he worked. Then multiply by number of hourly wage.
3. 35+31=66 7.15(66)=471.9
4. check the calculations 7.15(35+31)=7.15(66)-471.9

He earned 471.90

Your turn:

The student council bought 400 sweatshirts, 650 T-shirts, and 1100 notebooks to sell during the school year. At the end of the year the council had 96 sweatshirts, 139 T-shirts, and 227 notebooks left. How many items did they student council sell during the school year?

Upwards Church has budgeted $4350 for new chairs. Each chair costs $115 including tax. How many chairs can the church buy?

Brooklyn bought two loaves of bread for $1.29 each and three heads of lettuce for $.95 each. What was the total cost for food?

56÷7=	15÷3=	12÷6=	8÷2=	63÷7=	0÷4=
14÷2=	42÷6=	6÷1=	16÷8=	20÷5=	49÷7=
36÷4=	64÷8=	0÷3=	54÷9=	4÷2=	48÷8=
18÷9=	3÷1=	35÷5=	8÷4=	72÷8=	6÷6=
0÷5=	42÷7=	2÷2=	36÷9=	7÷1=	12÷3=
16÷2=	30÷5=	0÷1=	28÷7=	4÷4=	40÷8=
3÷3=	32÷8=	45÷5=	4÷1=	20÷4=	15÷5=
56÷8=	5÷1=	0÷8=	6÷2=	45÷9=	0÷6=
6÷3=	21÷7=	0÷9=	7÷7=	12÷4=	18÷6=
63÷9=	18÷3=	27÷9=	24÷3=	0÷2=	28÷4=
21÷3=	16÷4=	24÷8=	10÷5=	30÷6=	1÷1=
18÷2=	27÷3=	32÷4=	9÷1=	35÷7=	40÷5=
10÷2=	8÷8=	48÷6=	5÷5=	8÷1=	24÷6=
25÷5=	9÷3=	81÷9=	24÷4=	14÷7=	12÷2=
9÷9=	54÷6=	72÷9=	0÷7=	2÷1=	36÷6=

The main word in a complete predicate of a sentence is the verb. An action verb is a word that names an action. Action verbs can express either physical or mental actions.

The cloud **floated** across the sky.

Madelyn **thought** about her day.

Have, has, and had are also action verbs when they name what the subject owns or holds.

Stephen has an entire set of cars.(owns)

Stephen has experience as a designer. (holds)

Draw two lines under the action verb in each sentence. Write physical or mental after the sentence to indicate if the verb expresses physical action or mental action.

Dogs help humans in many ways.
Today, many people keep horses.
Horses have many excellent qualities.
Unfamiliar situations frighten some children.
People ride bikes through the city streets.
I have ten children.
Greg has a lot of wood in his shop.
Collin rides his bike down the mountain.
Evan has the top score in his video games.
Lauren has a great job as a nanny.
Ashlyn enjoys teaching children at her job.
Paul has visited many countries.
Greg appreciates a good cooked meal.
My dog enjoys bananas, carrots, and apples.
My home smells pleasant.
What are the four types of sentences?

1. _____
2. _____
3. _____
4. _____

Writing. You are going to answer the following question in paragraph form. Make sure to do a topic sentence, 3-4 supporting sentences, and then a final conclusion or wrap up sentence. Your teacher will be checking to make sure that you did it according to these instructions. Use all grammar rules: sentence capitalization, commas, correct punctuation, and correct spelling.

Students often learn how to budget their time in order to complete important tasks and still have time for themselves. Explain how learning to budget your time is an important skill for people. Use specific details and examples in your response.

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Your final requirement for the day is to read. Choose a book that is at your reading level. There are many book recommendations online or you can check out my blog www.plainandnotsoplain.com. Write the book title and how long you read for today. You should read for a minimum of an hour per day.

_____

amount read_____

Many patterns occur naturally in the real world. In 1202 Leonardo Fibonacci wrote about a pattern from nature that is called the Fibonacci sequence. These are the first ten numbers of this pattern:

1,1,2,3,5,8,13,21,34,55

Beginning with the third number, 2, each number in the pattern is the sum of the two numbers immediately preceding it. You can find this pattern in the spirals of the seeds on most sunflowers and in the spirals of the scales on many pineapples. Recognizing a pattern is a useful way to solve some mathematical problems. Many involved addition, subtraction, multiplication, and division.

Your turn:

Find the next three numbers in the pattern.

3	6	12	24			

5	7	10	14			

Find the next three expressions in each pattern:

x	x+3	x+6			

12	22	32	42			

23	22	20	17			

2y	6y	10y				

n+3	2n+3	3n+3			

9 x1	2 x2	5 x1	4 x3	0 x0	9 x9	3 x5	8 x5	2 x6	4 x7
5 x6	7 x5	3 x0	8 x8	1 x3	3 x4	5 x9	0 x2	7 x3	4 x 1
2 x3	8 x6	0 x5	6 x1	3 x8	1 x 1	9 x0	2 x8	6 x4	0 x7
7 x7	1 x4	6 x2	4 x5	2 x4	4 x 9	7 x0	1 x2	8 x4	6 x5
3 x2	4 x6	1 x9	5 x7	8 x2	0 x8	4 x2	9 x8	3 x6	5 x5
8 x9	3 x7	9 x7	1 x7	6 x0	0 x3	7 x2	1 x5	7 x8	4 x0
8 x3	5 x2	0 x4	9 x5	6 x7	2 x7	6 x3	5 x4	1 x0	9 x 2
7 x 6	1 x 8	9 x6	4 x 4	5 x3	8 x1	3 x3	4 x8	9 x3	2 x0
8 x0	3 x1	6 x8	0 x9	8 x7	2 x 9	9 x4	0 x1	7 x4	5 x8
0 x6	7 x1	2 x5	6 x9	3 x9	1 x6	5 x0	6 x6	2 x1	7 x9

Verbs can either be transitive or intransitive. A transitive verb is followed by a word or words called the direct object. The direct objects answers the question what? or whom?. An intransitive verb is an action verb that does not have a direct object.

The pilot landed the airplane. (Airplane is the direct object that answers the question landed what? after the verb landed.

The pilot landed carefully. (There is no direct object answering the question landed what or whom?

Draw two lines under each action verb. Circle each direct object. Write T if the verb is transitive or I if the verb is intransitive.

_____The pilot started the airplane.
_____Wilbur and Orville Wright built the first successful airplane.
_____They took it to Kitty Hawk, North Carolina, for its first flight.
_____The winds at Kitty Hawk blew steadily that day.
_____Their first flight lasted only twelve seconds.
_____The Wright brothers made three more flights that day.
_____The longest one lasted fifty-nine seconds.
_____Few newspapers carried news about the first flight.
_____Other designers worked hard day and night.
_____More successful airplanes appeared.
_____Airplane technology grew quickly.
_____Air fields operated as early as 1909.
_____Workers built twenty airports in three years.
_____In 1914, the First World War began.
_____Today more than eleven thousand airports exist in the United States.

Give me some examples of:

Proper nouns	common nouns

Writing. You are going to answer the following question in paragraph form. Make sure to do a topic sentence, 3-4 supporting sentences, and then a final conclusion or wrap up sentence. Your teacher will be checking to make sure that you did it according to these instructions. Use all grammar rules: sentence capitalization, commas, correct punctuation, and correct spelling.

Studies have shown that people who take short breaks throughout the day to do light, outdoor exercise are more productive than those who do not. Use specific details and examples to convince your teacher that you need similar breaks throughout the day.

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_____

amount read_____

week 5

A function is a relationship that pairs each number in a given set of numbers with exactly one number in a second set of numbers. Often you can describe a function by a function rule. For instance, suppose your purchase costs $4. If you give the salesclerk x dollars, the amount of change you receive is (x-4) dollars. You can use the variable expression x-4 to create a function rule.

You say: x is paired with x-4

You can make a chart like this

Fill in the rest of the chart:

x	x-4
5	1
10	6
20	
50	
100	

Complete the following tables

X	X-6
10	
12	
14	
16	
18	

X	10X
1	10
2	20
4	
6	
8	

r	8.25r
7	
9	
12	
13	
16	

X	$\frac{X}{6}$
6	
12	
18	
24	
30	

9 x1	2 x2	5 x1	4 x3	0 x0	9 x9	3 x5	8 x5	2 x6	4 x7
5 x6	7 x5	3 x0	8 x8	1 x3	3 x4	5 x9	0 x2	7 x3	4 x 1
2 x3	8 x6	0 x5	6 x1	3 x8	1 x 1	9 x0	2 x8	6 x4	0 x7
7 x7	1 x4	6 x2	4 x5	2 x4	4 x 9	7 x0	1 x2	8 x4	6 x5
3 x2	4 x6	1 x9	5 x7	8 x2	0 x8	4 x2	9 x8	3 x6	5 x5
8 x9	3 x7	9 x7	1 x7	6 x0	0 x3	7 x2	1 x5	7 x8	4 x0
8 x3	5 x2	0 x4	9 x5	6 x7	2 x7	6 x3	5 x4	1 x0	9 x 2
7 x 6	1 x 8	9 x6	4 x 4	5 x3	8 x1	3 x3	4 x8	9 x3	2 x0
8 x0	3 x1	6 x8	0 x9	8 x7	2 x 9	9 x4	0 x1	7 x4	5 x8
0 x6	7 x1	2 x5	6 x9	3 x9	1 x6	5 x0	6 x6	2 x1	7 9

Both a direct and indirect object may follow an action verb in a sentence. An indirect object tells to whom or for whom the verb's action is done.

Collin sold Evan the car. (Evan tells to whom Collin sold the car)

Indirect objects follow certain rules. First, indirect objects are found in sentences that have direct objects. Second, an indirect object always comes before a direct object. Finally the preposition to or for can be inserted before the indirect object; its position in the sentence can be changed, and the sentence will make sense.

Lauren threw Jadyn the softball. (Jadyn is the indirect object before the direct object softball)

Lauren threw the softball to Jadyn. (The meaning of the sentence is unchanged. Jadyn was an indirect object in the first example.)

Write DO above each direct object and IO above each indirect object. Not every sentence has an indirect object.

Thomas threw Sydney the ball.
The jeweler sold the couple two lovely rings.
Ashlyn lent Paul her car.
Amy showed Danielle her new tennis racket.
Amy guaranteed Crystal full payment for her work at her printing shop.
Will built a house for his dog.
We chose Jentzen as our team captain.
They refunded Dad the overcharge.
Jentzen owed Stephen a new video.
Autumn lent me her portable music player for the day.
Autumn walked her dog after dinner.
Collin taught the children a new song.
The deer leapt the creek with ease.
The bear walked up our driveway slowly.
Mrs. Maryon brought Stephen his homework.

Writing. You are going to answer the following question in paragraph form. Make sure to do a topic sentence, 3-4 supporting sentences, and then a final conclusion or wrap up sentence. Your teacher will be checking to make sure that you did it according to these instructions. Use all grammar rules: sentence capitalization, commas, correct punctuation, and correct spelling.

People sometimes say that failure can eventually lead to success. Do you agree or disagree with this statement? Use specific examples to convince others to support your position.

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amount read_____

The price of flat screen TV is $389.99. It can be bought on an installment plan for $50 down payment and 18 payments of $25. How much more does the TV cost on an installment plan?

Ninety-one students volunteered to clean parks and visit nursing homes. The students were evenly assigned to five parks and two nursing homes. How many students were assigned to each place?

Evan earns $12.25 for each new customer he recruits, plus a bonus of $8.50 for each subscriber to his newsletter. Last week Evan recruited 30 new customers, 12 of whom subscribed to the newsletter. How much did Evan earn last week?

Lauren earns $7.50 per hour. If she works more than 40 hours per week, she earns $10.75 per hour for each extra hour. Last week Lauren worked 45 hours. She says she earned $337.50. Is this correct? Explain

Some real-life problems require only an estimate for a solution. Others require an exact answer. Before attempting to solve a problem, you should decide whether an estimate or an exact answer is needed.

Decide whether you will need an estimate or an exact answer for the following and why:

The number of hours a trip will take

The amount an employee is paid

The width of a new window curtain

The number of books in a library.

How much paint to buy to paint my room.

I want to plant lettuce seeds in a garden. Packets of seeds cost 85 cents each. How much money should I take to buy six packets? Then solve

It is recommended that restaurant customers leave a tip of 15 percent of the entire bill. If the bill was $19.97, how much should I leave? Then solve

A linking verb joins the subject of a sentence with a noun or adjective in the predicate that identifies or describes the subject. Be in all of its forms (is, are, am, was, were) is the most common linking verbs. Other linking verbs include appear, become, feel, grow, look, seem, smell, sound, taste, and turn.

Circle each linking verb and underline each action verb.

The dog is brown.
The grass becomes green and lush during the rainstorm.
The delicious dessert was chocolate pie.
Madelyn asked for that book for her birthday.
Her answer annoyed me.
The exterior of the home appears neat.
My younger sister Autumn played Annie in the play.
The smell of burning leaves brought memories of the fire.
The country church bells sounded across the meadow.
Today the summer skies seem extremely blue.
Jadyn ran the marathon in record time.
Our old barn is a warm shelter for the cats in winter.
The annual church play was a success.
She enjoys watching her brother.
Remember the linking verbs we memorized a few years ago? is, are, am, was, were, be, being, been.

If you don't know them, learn them! Copy them down here

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Writing. You are going to answer the following question in paragraph form. Make sure to do a topic sentence, 3-4 supporting sentences, and then a final conclusion or wrap up sentence. Your teacher will be checking to make sure that you did it according to these instructions. Use all grammar rules: sentence capitalization, commas, correct punctuation, and correct spelling.

Many professional athletes, entertainers, earn large sums of money. Do you agree or disagree with these individuals making high salaries? Use specific details and examples to convince others to support your position.

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_____

amount read_____

Metric System of Measurement

Prefix and Meaning		Length	Liquid Capacity	Mass
kilo-	1000	kilometer	kiloliter	kilogram
hecto-	100	hectometer	hectoliter	hectogram
deca-	10	decameter	decaliter	decagram
	1	meter	liter	gram
deci-	0.1	decimeter	deciliter	decigram
centi-	0.01	centimeter	centiliter	centigram
milli-	0.001	millimeter	milliliter	milligram

The table shows the three basic units of measure in the metric system are the meter for length, the liter for liquid capacity, and the gram for mass. Units beginning with kilo- are the largest units in the table and units beginning with milli- are the smallest.

The table lists enough data so that you can change one unit of measure to another. Each unit in the table is 10 times as large as the unit immediately below it. For example, 1 cm is equal to 10 mm. Therefore, to change from a larger metric **unit** to a smaller **unit**, you multiply by 10, 100, 1,000, and so on.

Your turn: Write 0.25 L in mL.

Liters are larger than milliliters. Multiply by 1,000.

Write 48 mm in cm

Write 37.5 g in kg

Write 615 mm in meters

0.74 m in centimeters

0.88 km in m

2345 ml in l

You can use mental math to multiply numbers by 0.1, 0.01, 0.001 and so on. You simply move the decimal point of the number being multiplied to the left the same number of decimal places as there are in the number in which you are multiplying. For example, 0.01 has two decimal places, so (231.4)(0.01) =2.314

Find each product mentally.

(43.6)(0.1)= (764.4)(0.01)=

(891.3)(0.001)= (8.09)((0.1)=

(24.5)(0.001)= (57.8)(0.01)=

Select the most reasonable measure for each item:

Length of a soccer field

a) 100 cm
b) 100 m
c) 100km

Height of a person

a) 175 mm
b) 175 cm
c) 175 m

Width of a computer screen

a) 23 cm
b) 23 m
c) 23 km

Distance from New York to London

a) 5567 mm
b) 5567 cm
c) 5567 km

The words that follow a linking verb and identify or describe the subject are called subject complements. The two kinds of subject complements are predicate nouns and predicate adjectives. A predicate noun follows a linking verb and renames the subject. A predicate adjective follows a linking verb and describes the subject. Predicate nouns and predicate adjectives may be compound.

Tammy was a team **captain** and a **friend**. (compound predicate noun)

She sounded **tired** but **hopeful**.(compound predicate adjective.)

Write PN above each predicate noun and PA above each predicate adjective.

Those mountains have become a source of water for our city.
The baby sounded fussy and sleepy.
Their opinions on the matter turned sour.
Production was the major industry.
The foreigner seems homesick.
Madelyn looked joyful over her first-place award.
The storm grew intense during the late evening hours.
The vice president automatically becomes the president the following year.
The old cabin smelled damp and musty.
Evan felt anxious about his driver's test.
The first buds of spring soon became beautiful flowers.
Professor Carter became an authority on the Bible.
Ashlyn grew nervous before exams.
The green apples tasted sour to everyone.
Every other Saturday Karen was the substitute mail carrier.
The highway was once an old wagon train route.
The authors felt honored by the recognition.
My birthday cake looks beautiful.
Those tulips look fantastic in the spring sunshine.
The old stairway in Amy's house seems long.

Writing. You are going to answer the following question in paragraph form. Make sure to do a topic sentence, 3-4 supporting sentences, and then a final conclusion or wrap up sentence. Your teacher will be checking to make sure that you did it according to these instructions. Use all grammar rules: sentence capitalization, commas, correct punctuation, and correct spelling.

What improvements would make your community better? Use specific details and examples to convince the mayor of your community to accept your idea for improving where you live.

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Your final requirement for the day is to read. Choose a book that is at your reading level. There are many book recommendations online or you can check out my blog www.plainandnotsoplain.com. Write the book title and how long you read for today. You should read for a minimum of an hour per day.

_____

amount read_____

Look at the following pattern

$$8.3 \times 10^1 = 8.3 \times 10 = 83$$
$$8.3 \times 10^2 = 8.3 \times 100 = 830$$
$$8.3 \times 10^3 = 8.3 \times 1000 = 8300$$
$$8.3 \times 10^4 = 8.3 \times 10000 = 83{,}000$$

A key to help remember is to move the decimal point over the number of zeros that you have.

Greater numbers can be difficult to read and to write. Scientists and other people who use these numbers often write them in scientific notation. A number is written in scientific notation when it is written as a number that is at least one but less than ten multiplied by a power of ten.

at least 1, but less than 10 → 6×10^5
2.3×10^8
1.53×10^9

Write each number in scientific notation

13,000 –move the decimal point to get a number that is at least 1, but less than 10. It moves over 4 places.

1.3×10^4

Your turn:

Write each number in scientific notation:

34,000 150,000 1,420,000

Write each number in decimal notation (just the opposite move the decimal over to the right the number of zeros.

4.2×10^3 2.173×10^8 8×10^9

56÷7=	15÷3=	12÷6=	8÷2=	63÷7=	0÷4=
14÷2=	42÷6=	6÷1=	16÷8=	20÷5=	49÷7=
36÷4=	64÷8=	0÷3=	54÷9=	4÷2=	48÷8=
18÷9=	3÷1=	35÷5=	8÷4=	72÷8=	6÷6=
0÷5=	42÷7=	2÷2=	36÷9=	7÷1=	12÷3=
16÷2=	30÷5=	0÷1=	28÷7=	4÷4=	40÷8=
3÷3=	32÷8=	45÷5=	4÷1=	20÷4=	15÷5=
56÷8=	5÷1=	0÷8=	6÷2=	45÷9=	0÷6=
6÷3=	21÷7=	0÷9=	7÷7=	12÷4=	18÷6=
63÷9=	18÷3=	27÷9=	24÷3=	0÷2=	28÷4=
21÷3=	16÷4=	24÷8=	10÷5=	30÷6=	1÷1=
18÷2=	27÷3=	32÷4=	9÷1=	35÷7=	40÷5=
10÷2=	8÷8=	48÷6=	5÷5=	8÷1=	24÷6=
25÷5=	9÷3=	81÷9=	24÷4=	14÷7=	12÷2=
9÷9=	54÷6=	72÷9=	0÷7=	2÷1=	36÷6=

Tense refers to the form of the verb that shows the time of the action. The present tense refers to an action being done now, to an action that happens regularly, or to a situation that is generally true.

I **smell** the fresh flowers. (happening now)

The teacher **calls** quiet time daily. (happens regularly, generally true)

The past tense refers to an action that has already occurred. The past tense verbs are formed by adding –ed to the base form of the verb.

I s**melled** the fresh flowers earlier.

Jentzen **calle**d the coach.

Circle the verbs and write after the sentence whether they are present or past.

Jesus lived centuries ago.
No one knows the exact date of his birth and death.
The Bible calls him the Messiah.
Today Christians study his life.
I have learned about his wonderful healings.
Many individuals enjoy the relationship they have with him.
People have gained knowledge from the Bible about him.
The book shows wonderful truths about him.
The first four books are written about the law.
The Old Testament happened many years ago.
My family has decided to serve the Lord with all of their hearts.

Write two sentences with past tense verbs.

_____

_____

Write two sentences with present tense verbs.

_____

_____

Writing. You are going to answer the following question in paragraph form. Make sure to do a topic sentence, 3-4 supporting sentences, and then a final conclusion or wrap up sentence. Your teacher will be checking to make sure that you did it according to these instructions. Use all grammar rules: sentence capitalization, commas, correct punctuation, and correct spelling.

Civil rights leader Mahatma Gandhi wrote," Be the change you want to see in the world." What is one way you would like to change the world, and how can you help to bring about this change? Use specific details and examples in your response.

_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____

Your final requirement for the day is to read. Choose a book that is at your reading level. There are many book recommendations online or you can check out my blog www.plainandnotsoplain.com. Write the book title and how long you read for today. You should read for a minimum of an hour per day.

_____

amount read_____

week 6

Simplify $a^5 \bullet a$

$c^4 \bullet c^2 \bullet c^7$

$8n + 7m + 16n$

$8(3c-9)$

$18d - 11d - 5c$

$6c \bullet 7c^3$

Greg bought two sets of screwdrivers at $19.49 each, three boxes of screws at $4.98 each, and a drill for $39.95. What was the total cost of Greg's purchase?

Find the next three numbers or expressions

3	10	17			

a+6	a+7	a+8			

Complete each function table.

x	x-8
12	4
16	
20	
24	
28	

x	9x
2	
4	
6	
8	
10	

x	?
3	1
6	2
9	3
12	4
15	5

Write each number in scientific notation.

350,000 6,550,000

Write each number in decimal notation

1.3×10^5 5.88×10^8

Decide whether an exact or an estimate is needed then solve.

Ground beef sells for $2.09 per pound. Amy needs to buy 36 lb for a party. How much money should she take to the store?

Convert each measurement

56.4 cm to mm

655 ml to liters

Simplify

$(b^2)^5$ $(c^7)^4$

Solve

$(3 \bullet 4)^2$ $(2 \bullet 3)^4$

All verbs have four principal parts that are used to form the tenses.

BASE FORM	PRESENT PARTICIPLE	PAST	PAST PARTICIPLE
walk	walking	walked	walked

Other tenses are formed by combining the present participle and the past participle with helping verbs. A helping verb helps the main verb tell about an action or make a statement. One or more helping verbs followed by a main verb is called a verb phrase.

They are talking to Karen about the party.(are is the helping verb, and talking is the main verb. Together they form a verb phrase.)

Circle the correct helping verb.

Collin and Greg (are, have) arriving tomorrow.
Our team (was, had) worked hard to win the pennant.
Amy (is, has) joining our debate team.
My dog Maxine (is, has) always barking at something.
The class (is, has) going to the museum.
The buses (were, had) arrived late at the auditorium.
Autumn's friends (have, are) receiving the awards.
Evan (were, had) printed the poster.
Someone (is, has) marked up my new book.
Ashlyn and Paul (have, are) joining us for the trip.
The clouds (are, have) gathering to produce a shower.
Artists (have, are) coming to give us a presentation.
Music (are, has) ranked among my favorite subjects.
The sleek cat (is, had) crouching as if ready to pounce.
The birthday gifts (were, had) covered in polka dot paper.

Circle the correct spelling of the words below.

a) aept
b) acept
c) ecept
d) accept

a) absolute
b) abbsoulute
c) absoulte
d) absolut

e) akuse
f) accuse
g) acuse
h) ackuse

e) company
f) compeny
g) compiny
h) companey

i) additional
j) aditional
k) additonel
l) additionle

i) accountin
j) accounting
k) ackounting
l) akounting

m) accident
n) acident
o) acsident
p) accidnt

m) akres
n) acres
o) ackers
p) acrrs

q) ake
r) ache
s) ach
t) acche

a) akomplishet
b) accomplished
c) acomplished
d) ackomplished

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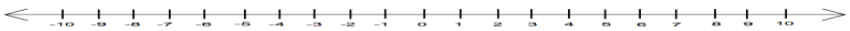
_____

amount read_____



An integer is any number in the following set: …-4,-3,-2,-1,0,+1,+2,+3,+4……

Integers greater than zero are called positive integers. Integers less than zero are called negative integers. Zero is neither positive nor negative. To make it easier, you generally write positive integers without the positive sign.

Another way to show the integers is to locate them as points on a number line. On a horizontal number line, positive integers are to the right of zero and negative numbers are to the left. (See number line above.)

Numbers that are the same distance from zero, but on opposite sides of zero, are called opposites. To indicate the opposite of a number n, you write –n. You read –n as "the opposite of n."

The distance that a number is from zero on a number line is the absolute value of the number. You use the symbol | | to indicate absolute value. You read |n| as "the absolute value of n"

Use the number line above to find the absolute value of the following:

|3| |-4|

Notice that three is three units from 0, so |3| is 3.

The number -4 is 4 units from 0, so |-4| = 4

When you compare numbers, you may want to picture them on a number line. On a horizontal number line, numbers increase in order from left to right.

Answer the following with < > =

1___-3 -4_____-2

Find on the number line and notice that 1 is to the right of -3, so 1>-3.

-4 is to the left of -2 so -4<-2

Your turn:

Find each absolute value.

|-5| |7| |-1| |10|

Fill in the ____with < > =

9____-8 -4_____4 -11____-7 -5_____6

Write in order from least to greatest.

4, -3, 9 -10,-8,-6 2,-2,0

Find the sum 1539+732=

Evaluate $\mathbf{8q^4}$ when q = 5

Evaluate 51.3 ÷ p when p=3

Find the product 453x219

Solve 25^5 33^3

The present tense of a verb describes an action that occurs repeatedly. The present progressive form of a verb refers to an action that is continuing in the present. The present participle of the main verb and the helping verb :am, are, or is combine to make up the present progressive form.

Present progressive form

singular	plural
I am painting	We are painting.
You are painting	You are painting.
He, she, or it is painting.	They are painting.

The past progressive form of a verb refers to an action that was continuing at some point in the past. The present participle of the main verb and the helping verb was or were combine to make up the past progressive form.

Past progressive form

Singular	plural
I was painting.	We were painting.
You were painting.	You were painting.
He, she, or it was painting.	They were painting.

Look at the verb in the following sentences. If the verb is present tense, write its present progressive form . If it's in the past tense, write its past progressive form.

The storm hindered our plans yesterday._____

I see Collin's father greets visitors at the door today._____

Evan missed the announcement._____

If you move tomorrow, let me know._____

Jadyn regulates her study time._____

The mountain sun heats up the morning._____

Brooklyn thanked us before she left._____

I returned your book to the library._____

My brother sings while I study._____

Turn the following statements into yes-no questions.

ex: John has locked the gates. Answer: Has John locked the gates?

Your turn.

We are ready to leave soon.

_____

You can translate that into Spanish.

_____

The kids were very happy with their presents.

_____

I'm working on it.

_____

He should postpone his trip.

_____

They are just kidding.

_____

It has gone on too long.

_____

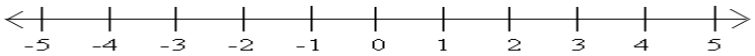
He could have done it differently.

_____

Your final requirement for the day is to read. Choose a book that is at your reading level. There are many book recommendations online or you can check out my blog www.plainandnotsoplain.com. Write the book title and how long you read for today. You should read for a minimum of an hour per day.

_____

amount read_____



Adding integers with the same sign

Find the sum -3+(-4).

Start at 0. Slide 3 units to the left. Slide 4 more units left. Stop at -7.

Find the sum 3 +2

Start at 0. Slide 3 units right. Slide 2 more units right. Stop at 5.

RULE: To add integers that have the same sign, add their absolute values. Then give the sum the sign of the integers.

Find each sum.

22+7

-14 + (-13)

-5 +(-25)

-32+(-18)

62+6

8+32

9 x1	2 x2	5 x1	4 x3	0 x0	9 x9	3 x5	8 x5	2 x6	4 x7
5 x6	7 x5	3 x0	8 x8	1 x3	3 x4	5 x9	0 x2	7 x3	4 x 1
2 x3	8 x6	0 x5	6 x1	3 x8	1 x 1	9 x0	2 x8	6 x4	0 x7
7 x7	1 x4	6 x2	4 x5	2 x4	4 x 9	7 x0	1 x2	8 x4	6 x5
3 x2	4 x6	1 x9	5 x7	8 x2	0 x8	4 x2	9 x8	3 x6	5 x5
8 x9	3 x7	9 x7	1 x7	6 x0	0 x3	7 x2	1 x5	7 x8	4 x0
8 x3	5 x2	0 x4	9 x5	6 x7	2 x7	6 x3	5 x4	1 x0	9 x 2
7 x 6	1 x 8	9 x6	4 x 4	5 x3	8 x1	3 x3	4 x8	9 x3	2 x0
8 x0	3 x1	6 x8	0 x9	8 x7	2 x 9	9 x4	0 x1	7 x4	5 x8
0 x6	7 x1	2 x5	6 x9	3 x9	1 x6	5 x0	6 x6	2 x1	7 x9

The present perfect tense of a verb names an action that happened at some time in the past. It also names an action that happened in the past and is still occurring. The past participle of the main verb and the helping verbs **have** or **has** make up the present perfect tense.

Present perfect tense

singular	plural
I have studied.	We have studied.
You have studied.	You have studied.
He, she, or it has studied.	They have studied.

The past perfect tense of a verb names an action that was completed before another action or event in the past. The past participle of the main verb and the helping verb **had** make up the past perfect tense.

Past perfect tense

Singular	Plural
I had studied	We had studied
You had studied	You had studied
He, she or it had studied	They had studied.

Write the present perfect tense of the verbs.

They remember the gifts for the guest speakers.

I follow Greg's suggestions.

That cat naps every chance he gets!

Collin loves that book.

Collin and Evan serve the church well.

Logic rules our scientific thought.

The tree turns a brilliant orange.

At sunset the clouds amaze me with their beautiful colors.

Change the positive statements to a negative statement.

Ex: I was looking at them. Answer: I was not looking at them.

You should buy a new cell phone.

_____

They are adopting the new plan.

_____

We can arrange a meeting.

_____

They were upset by the outcome.

_____

I am counting on it.

_____

I could unlock the file cabinet.

_____

The replacement is a standard size.

_____

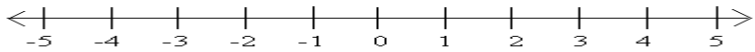
Evan might be able to come.

_____

Your final requirement for the day is to read. Choose a book that is at your reading level. There are many book recommendations online or you can check out my blog www.plainandnotsoplain.com. Write the book title and how long you read for today. You should read for a minimum of an hour per day.

_____

amount read_____



Adding integers with different signs.

Find each sum:

-2 +5 1+(-3)

Start at 0. Slide 2 units left. Slide 5 units right. Stop at 3.

Start at 0. Slide 1 unit right. Slide 3 units left. Stop at -2

RULE: To add two integers with different signs, first find their absolute values. Then subtract the lesser absolute value from the greater absolute value. Give the result the sign of the integer with the greater absolute value.

Find each sum: 10 +(-16)

|10|=10 and |-16|=16

Subtract 16-10=6

The negative integer has the greater absolute value, so the sum is negative.

10 + (-16)=-6

-7+12

|-7|=7 and |12|=12

Subtract: 12-7=5

The positive integer has the greater absolute value, so the sum is positive.

-7+12=5

In the case of adding opposites, the sum will always be zero. This fact is so useful in algebra that it is identified as a property of opposites.

Addition Property of Opposites

The sum of a number and its opposite is zero. $a+(-a)=0$ and $-a+a=0$

Find each sum.

-12+12 19+(-19)

-1+27 -13+6

14+(-40) -8+(-13)+7

-8 +18 -25+11+5

Mental Math

To add integers mentally, it is helpful to look for opposites. You can also group positive and negative integers.

-3 + 5+ (-8)+(-6)+9+3

-2 + (-11) + 5 + 11 + 9 + (-7) + 16

Write 2,700,000 in scientific notation

The future tense of a verb is formed by adding the helping verb “will” before the main verb. When the subject is I or we, the helping verb shall is sometimes used.

Our big playoffs will begin next week.

Time words such as tomorrow, next year, and later, are used to refer specifically to future time to show that an action has yet to occur. They are used with the present tense of the verb.

Our big playoffs start next week.

The present progressive form can also be used with time words to express future actions.

Our big playoffs are starting next week.

The future perfect tense of a verb refers to an action that will be completed before another future action begins. The future perfect tense is formed by inserting will have or shall have before the past participle of the verb.

By that time, our big playoffs will have started.

Draw two lines under each verb or verb phrase. Write the tense of the verb: present, present progressive, future, or future perfect.

I will unhook the chain._____

Greg is advising us about our leaky roof tomorrow._____

They will watch a video on that classic story._____

By then, I shall have tired of it._____

Amy will smooth over the problem._____

I will perform up to my instructor’s expectation._____

Lauren will organize the class project._____

Chloe practices her violin every day._____

He will have impressed everyone with his vocal talents._____

Our team will turn around yet._____

Convert the following direct quotations to indirect quotations. Be sure to use "that" in the indirect quotation.

Jim said, "The computer paper is stored in the bottom drawer."

Jim said that the computer paper was stored in the bottom drawer.

Your turn:

Amy said, "The company hosts the annual meeting in Las Vegas this year."

_____

Tom said, "Frank has decided to move to Chicago."

_____

I said, "Danielle will meet us as soon as possible."

_____

Brent said, "Everyone has enjoyed the visit."

_____

The TV said, "The storm may move up the coastline."

_____

Dane said, "The keys are kept next to the backdoor."

_____

I said, "I know you are right."

_____

Jentzen said, "We can still get reservations for the weekend."

_____

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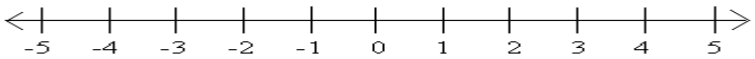
_____

amount read_____

week 7



Subtracting Integers

Find the difference: **-3 – (-1)**
The easiest way to do this is to change subtraction to addition and change the sign of the second integer.
-3 + (+1)
Answer: **-2**

Find the difference: **4 – 6**
Change subtraction to addition and change the sign of the second integer: **4 + (-6)**
Answer: **-2**

Your turn: Find each difference.

12- (-3) -4-(-14) -24-(-16)

-5-4 -12-7 23-23

The record low temperature for March is **–11°F**. The normal low temperature for March is **25°F**.
How much greater is the normal temperature than the record temperature?

9 x1	2 x2	5 x1	4 x3	0 x0	9 x9	3 x5	8 x5	2 x6	4 x7
5 x6	7 x5	3 x0	8 x8	1 x3	3 x4	5 x9	0 x2	7 x3	4 x 1
2 x3	8 x6	0 x5	6 x1	3 x8	1 x 1	9 x0	2 x8	6 x4	0 x7
7 x7	1 x4	6 x2	4 x5	2 x4	4 x 9	7 x0	1 x2	8 x4	6 x5
3 x2	4 x6	1 x9	5 x7	8 x2	0 x8	4 x2	9 x8	3 x6	5 x5
8 x9	3 x7	9 x7	1 x7	6 x0	0 x3	7 x2	1 x5	7 x8	4 x0
8 x3	5 x2	0 x4	9 x5	6 x7	2 x7	6 x3	5 x4	1 x0	9 x 2
7 x 6	1 x 8	9 x6	4 x 4	5 x3	8 x1	3 x3	4 x8	9 x3	2 x0
8 x0	3 x1	6 x8	0 x9	8 x7	2 x 9	9 x4	0 x1	7 x4	5 x8
0 x6	7 x1	2 x5	6 x9	3 x9	1 x6	5 x0	6 x6	2 x1	7 x9

A sentence is in the active voice when the subject performs the action of the verb.

The Wright Brothers landed their plane in North Carolina.

A sentence is in the passive voice when the subject receives the action of the verb. The verb in a passive-voice sentence consists of a form of be and the past participle. Often a phrase beginning with **by** follows the verb in a passive- voice sentence.

The airplane was landed in that town by the Wright Brothers.

The active voice is stronger and emphasizes the performer. Use the passive voice when you want to emphasize the receiver of the action or de-emphasize the performer. Also, use the passive voice if you do not know who the performer is.

The airplane was landed. (You do not want to state who landed it.)

The moon was reached in 1969. (focuses on the event.)

Write whether the sentence is in the active or passive voice.

The law of universal gravitation was discovered by Sir Isaac Newton._____

Mars orbits the sun in about 687 Earth days._____

Mars was observed by the U.S. spacecraft Mariner IV in 1965._____

Venus is called the Morning Star by many persons._____

The surface of Venus has been mapped by succeeding American space probes._____

In 1976, the United States landed Viking I near the planet's equator._____

It uses its wings to land like a glider._____

Two big booster rockets launch the space shuttle into orbit._____

Write the following nouns under their proper heading. Capitalize if needed.

	common noun	proper noun
soccer player, david villa		
burger king, restaurant		
company, disney		
london, city		
schwinn, bicycle		
simba, lion		
huron, lake		
You fill in the name of	road	
	state	
	friend	
	river	

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_____

amount read_____

Multiplying and Dividing Integers

RULE

The product of two integers with the same sign is positive.

The product of two integers with different signs is negative.

Find each product:

(-11)(4)=-44 (-7)(-10)=70 (-5)(-4)(2)=40

RULE

The quotient of two integers with the same sign is positive.

The quotient of two integers with the different sign is negative.

-15÷5=-3 $\frac{-48}{-12}$=4

Your turn:

(-4)(-1) 2(-30) 4(-32)(-3)

32÷(-8) 32÷8 -32÷(-8)

(-4)(5)(-2) (-6)(3)(0)

-250÷5 -144÷3

Answer < >=

5_____-6

-9_____-4

-3_____3

-2_____-1

Find each answer.

-2+(-2)

-5+(-17)

-4+(-14)

-4+9

7+(-13)

-16+16

-26-5

-7(5)(-2)

36÷(-3)

9(-9)

These irregular verbs are grouped according to the way they form their past and past participle.

Base form	Past	past participle
begin	began	begun
drink	drank	drunk
ring	rang	rung
sing	sang	sung
spring	sprang or sprung	sprung
swim	swam	swum
bring	brought	brought
buy	brought	brought
catch	caught	caught
creep	crept	crept
feel	felt	felt
get	got	got or gotten
keep	kept	kept
lay	laid	laid
leave	left	left
lend	lent	lent
lose	lost	lost
make	made	made
pay	paid	paid
say	said	said
seek	sought	sought
sit	sat	sat
sleep	slept	slept
teach	taught	taught
think	thought	thought
win	won	won

Your turn:
complete each sentence with the past tense or past participle of the irregular verb in parentheses.

Ashlyn had _____down before the music began.(sit)

Evan had _____late that morning.(sleep)

Lauren_____her new book yesterday. (got)

My cat just _____there while the mouse escaped. (sit)

I _____this cold last week. (catch)

Fill in the chart with all of the forms for each noun.

singular	possessive only	plural only	plural and possessive
wife	wife's	wives	wives'
boy			
boss			
friend			
plane			
city			

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_____

amount read_____

Evaluating Expressions involving integers

Evaluate each expression when y=-4

y^2 $y^2=(-4)^2$ $(-4)(-4)=16$

$2y^3+18$

$2(-4)^3+18$

-128+18

-110

Absolute value signs have the same priority as parentheses in the order of operations. When evaluating expressions involving absolute value, you evaluate any expression within absolute value signs first.

Evaluate each expression when c=-9 and d=4

|c+d|

|-9+4|

|-5|

=5

|c| +|d|

|-9|+|4|

9+4=13

Multiplication Property of -1

The product of any number and -1 is the opposite of the number.

-1n=-n and –n=-1n

Your turn:

$(-7)^2$

$(-1)^5$

Evaluate when m= (-3), n=8, and s=(-6)

|n|+|s|

|m+3|-6

-mn

-s+(-7)

7-|n-8|

-mn+14

Complete each function table.

x	x^2
-6	36
-3	
-2	
-1	
4	

x	
-6	24
-5	20
-4	16
1	-4
3	-12

x	-x+2
-5	7
-4	6
-1	
0	
2	

irregular verbs

base form	past form	past participle
become	became	become
come	came	come
run	ran	run
blow	blew	blown
draw	drew	drawn
fly	flew	flown
grow	grew	grown
know	knew	known
throw	threw	thrown
bite	bit	bitten or bit
break	broke	broken
choose	chose	chosen
drive	drove	driven
eat	ate	eaten
fall	fell	fallen
give	gave	given
ride	rode	ridden
rise	rose	risen
see	saw	seen
speak	spoke	spoken
steal	stole	stolen
take	took	taken
write	wrote	written
am, are, is	was,were been	
do	did	done
go	went	gone
tear	tore	torn
wear	wore	worn
cut	cut	cut
let	let	let

Complete each sentence with the past tense or past participle of the irregular verb in parentheses.

I had _____the gift before you called. (choose)

We ____names to select a winner. (draw)

I should never have _____them use the car.(let)

Last summer, I had been_____all over by mosquitoes (bite)

In each blank space use an indefinite article (a, or some) or the definite article (the) if the noun I defined by modifiers.

There is _____cat on top of your car. (the answer is a)

She tried to learn _____Spanish vocabulary in class.

She tried to learn_____Spanish vocabulary that she was assigned.

There is_____way to avoid traffic.

What is _____shorter way to get to his house?

His cousin adopted _____-dog.

His cousin adopted_____dog that you saw at the shelter.

Would you like_____apples?

We would like to hear _____joke you think is so funny.

Your final requirement for the day is to read. Choose a book that is at your reading level. There are many book recommendations online or you can check out my blog www.plainandnotsoplain.com. Write the book title and how long you read for today. You should read for a minimum of an hour per day.

_____

amount read_____

Mixed Review

-4+(-5)

35+(-97)

8(-4)

55÷5

-11+19

-160÷16

57+(-5)

(-5)(-7)

14+(-27)

33-(-21)

(-9)(3)

14-(-8)

56÷7=	15÷3=	12÷6=	8÷2=	63÷7=	0÷4=
14÷2=	42÷6=	6÷1=	16÷8=	20÷5=	49÷7=
36÷4=	64÷8=	0÷3=	54÷9=	4÷2=	48÷8=
18÷9=	3÷1=	35÷5=	8÷4=	72÷8=	6÷6=
0÷5=	42÷7=	2÷2=	36÷9=	7÷1=	12÷3=
16÷2=	30÷5=	0÷1=	28÷7=	4÷4=	40÷8=
3÷3=	32÷8=	45÷5=	4÷1=	20÷4=	15÷5=
56÷8=	5÷1=	0÷8=	6÷2=	45÷9=	0÷6=
6÷3=	21÷7=	0÷9=	7÷7=	12÷4=	18÷6=
63÷9=	18÷3=	27÷9=	24÷3=	0÷2=	28÷4=
21÷3=	16÷4=	24÷8=	10÷5=	30÷6=	1÷1=
18÷2=	27÷3=	32÷4=	9÷1=	35÷7=	40÷5=
10÷2=	8÷8=	48÷6=	5÷5=	8÷1=	24÷6=
25÷5=	9÷3=	81÷9=	24÷4=	14÷7=	12÷2=
9÷9=	54÷6=	72÷9=	0÷7=	2÷1=	36÷6=

Circle the correct form of the word in parentheses.

If I had (knew, known) you were coming, I would have cleaned my room.

Autumn (gave, given) her sister a fabulous birthday present.

Greg and Amy have often (spoke, spoken) of their trip to Hawaii.

The rainbow (grew, grown) more brilliant as the sky cleared.

The entire family (ate, eaten) some of Aunt Sue's peach pie.

Madelyn had (became, become) bored with her hobby.

Stephen (ran, run) the last four blocks, but he was still late for school.

Jentzen (threw, thrown) the football back to Peter.

The desk had (was, been) Grandmother's favorite place to write.

Fans had (come, came) from many cities to see the historic event.

Linda had (did, done) all the work for the surprise party herself.

Fill in the blanks with the appropriate article (a, an, or some)

Would you turn _____light on?

I need _____accounting textbook for class tomorrow.

There was _____confusion at the airport.

The boss needs_____answer from you.

Be careful, there is_____wasp in the house.

There was _____pit in that cherry.

Do you need_____water?

I borrowed_____tools for my project.

That is _____ugly dress in the store.

Draw two lines under each verb.

Experts were examining the book.

Lauren will call before Tuesday.

Their team had lost the game during the first quarter.

The sun has hidden behind the clouds all day.

He will have torn some of his clothing on the hike.

We were leaving on a jet plane.

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_____

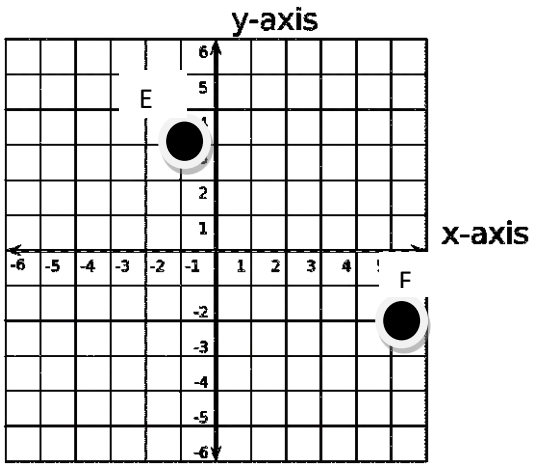
amount read_____

week 8

The coordinate plane

The grid is called a coordinate plane. A coordinate plane is formed by two number lines called axes. The horizontal number line is the x-axis, and the vertical number line is the y-axis. The point where the axes meet is called the origin. The axes separate the coordinate plane into four sections called quadrants.

You can assign an ordered pair of numbers to any point on the plane. The first number in an ordered pair is the x-coordinate. The second number is the y-coordinate. The origin has coordinates (0,0)



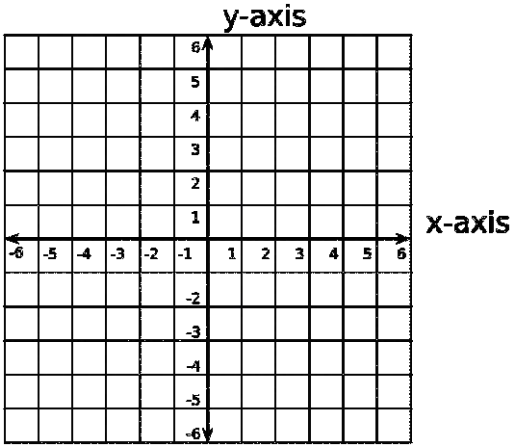
Use the coordinate plane above and write the coordinates of each point.

Start at the origin. Point E is 2 units left (negative) and 4 units up (positive). The coordinates are (-2,4)

Start at the origin. Point F is 3 units right (positive) and 0 units up or down. The coordinates are (3,0)

When you graph a point on a coordinate plane, you show the point that is assigned to the ordered pair (x,y).

1. Start at the origin.
2. Move x units horizontally along the x-axis
3. Then move y units vertically.
4. Draw the point and label it.



Graph each point on the coordinate plane.

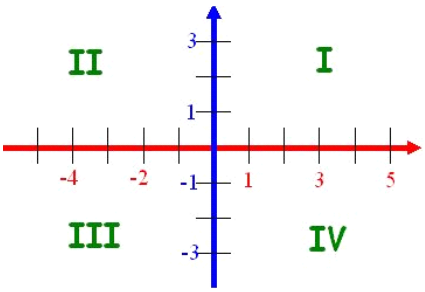
A (4,1)

B (1,4)

C (-3,0)

D (0,-4)

Here the axes separate the coordinate plane into four sec



Graph each point on the coordinate plane.

A (5,1)

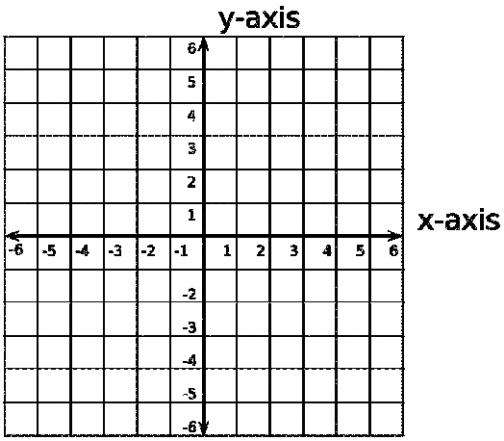
E (-3,-3)

B (3,3)

F (-2,4)

G (-6,1)

C (6,-2)



Identify each kind of sentence. declarative, interrogative, exclamatory, or imperative.

Where will you go after school, Carrie?_____

Had Madelyn seen the video before the other students?_____

Amy, our new president, will have talked to you about our plan._____

Hurry! Our dog is barking wildly!_____

“You will ride your horse in the parade,” Father stated firmly._____

Kevin had received a call from the state of New York on Thursday._____

Was the museum well attended last year?_____

When will you paint the old barn, William?_____

Come to our house right now._____

Please pick up the dog mess._____

Circle the correct word in parentheses.

Can you (bring, take) me to the airport?

Would you (bring, take) me some tea.

What book have you (brought, took)?

The bus will (bring, take) you to the ferry.

(Bring/take) a coat if you’re going outside.

April showers (bring, take) May flowers.

My uncle (brought, took) the family photo album.

Anderson(brought, took) the report to the governor.

Remember comparative and superlative forms of adjectives? Comparative is comparing two things together. Superlative is comparing three or more.

For ex: I am sad. is base form. I am sadder than Julie—comparing two things. I am the saddest of all the girls.—comparing to all the girls so its superlative form.

Fill in chart.

base	comparative	superlative
worried	more worried	most worried
sound		
sunny		
patient		
blue		
bad		
improved		
pretty		
developed		

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_____

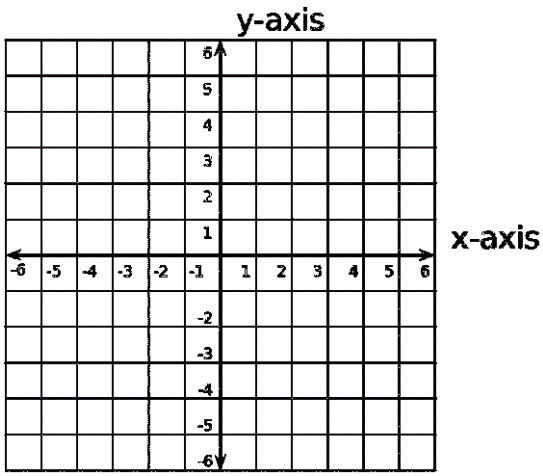
amount read_____

Graphing Functions

You can make a list of ordered pairs from a function table. The first column equals the x-coordinate. The second column represents the y-coordinate.

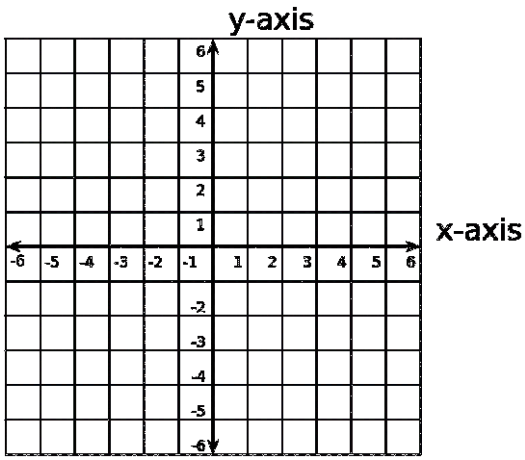
Fill in the chart and then graph.

x	x-2
-3	-5
-2	-4
0	
1	
5	



x	-2x
-2	4
-1	2
0	
3	
4	

Graph each function.



9 x1	2 x2	5 x1	4 x3	0 x0	9 x9	3 x5	8 x5	2 x6	4 x7
5 x6	7 x5	3 x0	8 x8	1 x3	3 x4	5 x9	0 x2	7 x3	4 x 1
2 x3	8 x6	0 x5	6 x1	3 x8	1 x 1	9 x0	2 x8	6 x4	0 x7
7 x7	1 x4	6 x2	4 x5	2 x4	4 x 9	7 x0	1 x2	8 x4	6 x5
3 x2	4 x6	1 x9	5 x7	8 x2	0 x8	4 x2	9 x8	3 x6	5 x5
8 x9	3 x7	9 x7	1 x7	6 x0	0 x3	7 x2	1 x5	7 x8	4 x0
8 x3	5 x2	0 x4	9 x5	6 x7	2 x7	6 x3	5 x4	1 x0	9 x 2
7 x 6	1 x 8	9 x6	4 x 4	5 x3	8 x1	3 x3	4 x8	9 x3	2 x0
8 x0	3 x1	6 x8	0 x9	8 x7	2 x 9	9 x4	0 x1	7 x4	5 x8
0 x6	7 x1	2 x5	6 x9	3 x9	1 x6	5 x0	6 x6	2 x1	7 x9

A pronoun is a word that takes the place of **one or more nouns** and the words that describe those nouns. A personal pronoun refers to a specific person or thing. When a personal pronoun is the subject of the sentence, it is a subject pronoun. When a personal pronoun is the object of a verb or preposition it is an object pronoun.

Subject Pronouns: I, you, he, she, it, we, you, they

Object Pronouns: me, you, him, her, it, us, you , them

Write an S above each subject pronoun and an O above each object pronoun.

They have a black and white cat named Max.

The Rangers beat us four to nothing.

You might see Greg and Amy at the carnival.

Is he the main character in the book?

I can't remember meeting Amy's aunt.

Just give us a chance!

Does it include batteries or should Mom buy some?

It slowly stalked the rabbit out in the field.

Through the years new inventions have changed the way we live. Think about one invention that has had an impact on the way you live. Now write to explain to your teacher how this invention has changed your life.

Use all the proper rules for writing. Your teacher will have you rewrite if there are any grammar or spelling errors so proofread your paragraph.

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_____

amount read_____

REVIEW

Find each absolute value

|-11| |5| |-3|

Answer < > =

-12_____3 -8_____8 -5_____0

-2+(-3) 4(-5) (-6)(-8)

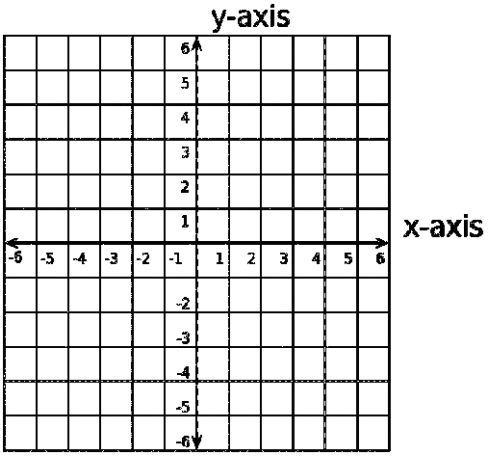
12+(-32) -32÷4

(-9)(5) -63÷-9

Evaluate each expression when a=6, b=-2, c=-7

b^2 c^2-9 |c|-b

a+|b| |a+b| $-5a^2$



Graph the following:

D (5,-3)

F (1,3)

E (-2,0)

G (-5,4)

Fill in each function chart.

x	3x-1
-2	
-1	
0	
1	
2	

x	x+4
-4	
-2	
0	
1	
3	

The noun or group of words that a pronoun refers to is called its antecedent. Be sure every pronoun agrees with its antecedent in number and gender. The gender of a noun or pronoun may be masculine, feminine, or neuter (referring to things).

Draw an arrow from each pronoun in the second sentence to its antecedent in the first sentence. The pronoun is bold faced.

Norway is a small country in northern Europe. **It** hosted the 1994 Winter Olympics.

Many people knew little about Norway before the Olympics. They learned more about **it** by watching the Olympics on television.

Much of Norway is covered by mountains. **They** make transportation difficult.

Unlike the United States, Norway is a kingdom. **It** also has a prime minister.

Sonja Henie is a famous Norwegian figure skater**.** **She** won three Olympic gold medals.

A famous Viking is Leif Ericsson. Many historians believe **him** to be the first European to land in North America.

A wealthy donor plans to build a new facility that will benefit young people in your area. It could be a swimming pool, a theater, a skate park, or any other facility that would provide young people with constructive ways to spend their time. The donor is not sure what kind of facility would be most useful. Write a letter to the donor in which you identify the type of facility you would like to have built and persuade them that it is the best choice. Support your opinions with convincing reasons and evidence.

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_____

amount read_____

An equation is a statement that two numbers or two expressions are equal. Some equations such as x+1=6, contain a variable. A value of the variable that makes an equation true is called a solution of the equation.

Is the given number the solution of the equation? yes or no

x+1=6; 5

Substitute 5 for x in the equation. (5)+1=6 6=6 YES

15=5k; 2

15=5(2) 15≠10

The symbol ≠ means is not equal to. Answer is NO, 2 is not the solution

Your turn:

Is the given number a solution of the equation? yes or no

x +6=9;3 18=3n;15

b-3=-4; -1 5=m-9;4

Use mental math to find each solution.

p+8=9 z-4=-1

5+n=5 3r-11=4

56÷7=	15÷3=	12÷6=	8÷2=	63÷7=	0÷4=
14÷2=	42÷6=	6÷1=	16÷8=	20÷5=	49÷7=
36÷4=	64÷8=	0÷3=	54÷9=	4÷2=	48÷8=
18÷9=	3÷1=	35÷5=	8÷4=	72÷8=	6÷6=
0÷5=	42÷7=	2÷2=	36÷9=	7÷1=	12÷3=
16÷2=	30÷5=	0÷1=	28÷7=	4÷4=	40÷8=
3÷3=	32÷8=	45÷5=	4÷1=	20÷4=	15÷5=
56÷8=	5÷1=	0÷8=	6÷2=	45÷9=	0÷6=
6÷3=	21÷7=	0÷9=	7÷7=	12÷4=	18÷6=
63÷9=	18÷3=	27÷9=	24÷3=	0÷2=	28÷4=
21÷3=	16÷4=	24÷8=	10÷5=	30÷6=	1÷1=
18÷2=	27÷3=	32÷4=	9÷1=	35÷7=	40÷5=
10÷2=	8÷8=	48÷6=	5÷5=	8÷1=	24÷6=
25÷5=	9÷3=	81÷9=	24÷4=	14÷7=	12÷2=
9÷9=	54÷6=	72÷9=	0÷7=	2÷1=	36÷6=

Underline the pronoun that best completes each sentence.

(We, Us) athletes need your enthusiastic support.

Jan and (she, her) are our class representatives.

Are you going to come with Jim and (I, me)?

The tallest player on the team is (he, him).

What did (they, them) do for their history project?

The award was given to Matthew and (she, her).

Please give (she, her) the letter.

Were you and (she, her) interested in signing up for the dance class?

Let's divide the assignment between you and (we, us).

We make a pretty good team, you and (I, me).

Girls and boys often enjoy playing the same sport. Some people believe that girls and boys should be able to play on the same team. What is your opinion on this issue? Write stating your opinion and supporting it with convincing reasons.

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_____

amount read_____

week 9

Solving addition and subtraction in equations.

How to solve equations, you need to get the variable alone.

Solve 6+k=31

you want to get k alone, so subtract 6 from the left side and do the same to the other side.

$$\begin{array}{r} 6+k=31 \\ \underline{-6 \qquad -6} \\ k=25 \end{array}$$

Solve -29=s-15 remember get s alone.

$$\begin{array}{r} -29=s-15 \\ \underline{+15 \quad +15} \\ -14=s \end{array}$$

Your turn:

a+2=11

5+b=-19

-10=c-20

a+9=9

45=d+8

1=r-3

9 x1	2 x2	5 x1	4 x3	0 x0	9 x9	3 x5	8 x5	2 x6	4 x7
5 x6	7 x5	3 x0	8 x8	1 x3	3 x4	5 x9	0 x2	7 x3	4 x 1
2 x3	8 x6	0 x5	6 x1	3 x8	1 x 1	9 x0	2 x8	6 x4	0 x7
7 x7	1 x4	6 x2	4 x5	2 x4	4 x 9	7 x0	1 x2	8 x4	6 x5
3 x2	4 x6	1 x9	5 x7	8 x2	0 x8	4 x2	9 x8	3 x6	5 x5
8 x9	3 x7	9 x7	1 x7	6 x0	0 x3	7 x2	1 x5	7 x8	4 x0
8 x3	5 x2	0 x4	9 x5	6 x7	2 x7	6 x3	5 x4	1 x0	9 x 2
7 x 6	1 x 8	9 x6	4 x 4	5 x3	8 x1	3 x3	4 x8	9 x3	2 x0
8 x0	3 x1	6 x8	0 x9	8 x7	2 x 9	9 x4	0 x1	7 x4	5 x8
0 x6	7 x1	2 x5	6 x9	3 x9	1 x6	5 x0	6 x6	2 x1	7 x9

A possessive pronoun shows who or what has something. Possessive pronouns replace possessive nouns. They may come before a noun or they may stand alone.
His car was stolen. The car was **his.**

Used before nouns	**Used alone**
my, your, his, her, its	**mine, yours, his, hers, its**
our, your, their	**ours, yours, theirs**

An indefinite pronoun does not refer to a particular person, place, or thing. The indefinite pronouns all, any, most, none, and some can be singular or plural depending on the phrase that follows.

Common indefinite pronouns.

singular: another, anybody, anyone, anything, each, either, everybody, everyone, everything, much, neither, nobody, no one, nothing, one, somebody, someone something.

plural: both, few, many, others, several

Circle the correct pronoun.

(Most, One) of the greatest Chinese explorers was Chang Ch'ien.

(Yours, His) explorations helped the Han dynasty to flourish.

During (his, my) lifetime, China was invaded by the Huns, a fierce warrior people.

Wu-ti knew that China needed an ally in (its, either) fight against the Huns.

Chang himself spent ten years as a prisoner but learned much about (his, its) captors while planning his escape.

Write a paragraph in which you explain how to make something. You might write about a food item, a handcraft item, or anything else you know how to make. Clearly explain each step in the process so that the reader could make the item the way you do.

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_____

amount read_____

Solving multiplication and division equations works the same way. You want to get the variable alone. Remember whatever you do to one side, you do the same to the other side.

Solve 2s=860, get s alone

$\frac{2s}{2}=\frac{860}{2}$ you divide each side by 2, this will get the first side alone to 1.

s=430

$18=\frac{n}{-4}$ $18(-4)=\frac{n}{-4}(-4)$

-72=n

Solve –n=9 remember that there is 1 in front of n

$\frac{-1n}{-1}=\frac{9}{-1}$

n=-9

Your turn:

2b=30 -6c=108

-7t=-105 -10u=120

$1=\frac{x}{-5}$ $3=\frac{n}{12}$

Use mental math to find each solution:

$4 + x = -3$

$\frac{h}{-3} = 3$

$13 = 3w - 5$

Solve and check.

$c + 12 = 9$

$m - 8 = -10$

$15 = 13 + w$

$-3z = 90$

$-4 = \frac{a}{6}$

$-n = 7$

732 x 12

8432÷ 22 (go to two decimal places)

Adjective modifies or describes a noun or pronoun. An adjective provides information about the size, shape, color, texture, feeling, sound, smell, number or condition of a noun or pronoun.

Brown birds sometimes build nests above **front** doors.

Most adjectives come before the words they modify. A predicate adjective follows a linking verb and modifies the noun or pronoun that is the subject of the sentence.

The clerks in this store are **polite** and **friendly.**

Underline each adjective and draw an arrow to the noun or pronoun it modifies.

Ants are social insects that live in organized colonies.

Male ants mate with young queens and live very short lives.

Queens live several years and lay numerous broods of eggs.

Ants are also extremely strong and energetic.

They are industrious.

Ants have interesting ways to share information.

Communication is essential in such complex societies.

Think about the last time you attended a special event, such as a concert, or a fair, etc. Describe what it was like to be there and include sights, sounds, and smells that will make the reader feel he or she is there with you.

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_____

amount read_____

Two step Equations

Solve 2n+1=7

Remember we are to get n by itself. So we subtract 1 from one side and then the other.

$$\begin{array}{l} 2n+1=7 \\ \underline{\quad -1 \;\; -1} \\ 2n=6 \end{array}$$

Now you have to divide by 2 to get n alone. Do it to both sides.

$$\frac{2n}{2}=\frac{6}{2}$$

n=3

Solve $-20=\frac{t}{3}-4$

$$\underline{+4=\frac{t}{3}+4}$$

$$-16=\frac{t}{3}$$

$$-16\bullet 3=\frac{t}{3}\bullet 3$$

-48=t

Your turn:

6n+4=28

8b-5=35

28=-3x-2

35=9m-10

$16c-71=153$

$\frac{x}{15}-32=58$

$1480+7w=2040$

$\frac{b}{-15}+112=-88$

Mixed review

$6n=-18$

$-a=0$

$-15+9d=21$

$-y-18=-13$

$-7c=-84$

$4+g=56$

$54=-6g$

$-8=16-3w$

The words “a, an, the” are a special group of adjectives called articles. A and an are indefinite articles because they refer to a general group of people, places, or things. Use “a” before words beginning with a consonant sound and use “an” before words beginning with a vowel sound.

a film a bicycle an omelet an honor

“The” is called a definite article because it identifies specific people, place, or things.

The river

Write in the blank the indefinite article(a or an) that comes before each word or group of words.

_____arch

_____infection

_____scientific experiment

_____underground passage

_____ball of yarn

_____avid fan

_____clever invention

_____X ray

_____hour-long film

_____egg yolk

_____university

Think of a favorite object that you own. In a descriptive essay, use sensory details—words that tell how something looks, feels, tastes, smells, and sounds---to clearly describe this favorite object so that a friend could picture it.

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Your final requirement for the day is to read. Choose a book that is at your reading level. There are many book recommendations online or you can check out my blog www.plainandnotsoplain.com. Write the book title and how long you read for today. You should read for a minimum of an hour per day.

_____

amount read_____

Variable expressions

When writing a variable expression that represents a word phrase, you first choose a variable to represent the unknown number.

Write a variable expression that represents the phrase $35 less than twice Amy's salary.

Let s=Amy's salary

Then 2s=twice Amy's salary

So 2s-35=$35 less than twice Amy's salary.

Write a variable expression that represents the phrase eight increased by five times a number n.

Increased by suggests addition. Times suggest multiplication.

8+5n

Your turn:

a number x divided by 30

six more than twice as many hits

$4 less than last paycheck

the sum of four times a number r and two

five more than a number x

four less than six times a number d

twelve fewer apples on the tree than yesterday

9 x1	2 x2	5 x1	4 x3	0 x0	9 x9	3 x5	8 x5	2 x6	4 x7
5 x6	7 x5	3 x0	8 x8	1 x3	3 x4	5 x9	0 x2	7 x3	4 x 1
2 x3	8 x6	0 x5	6 x1	3 x8	1 x 1	9 x0	2 x8	6 x4	0 x7
7 x7	1 x4	6 x2	4 x5	2 x4	4 x 9	7 x0	1 x2	8 x4	6 x5
3 x2	4 x6	1 x9	5 x7	8 x2	0 x8	4 x2	9 x8	3 x6	5 x5
8 x9	3 x7	9 x7	1 x7	6 x0	0 x3	7 x2	1 x5	7 x8	4 x0
8 x3	5 x2	0 x4	9 x5	6 x7	2 x7	6 x3	5 x4	1 x0	9 x 2
7 x 6	1 x 8	9 x6	4 x 4	5 x3	8 x1	3 x3	4 x8	9 x3	2 x0
8 x0	3 x1	6 x8	0 x9	8 x7	2 x 9	9 x4	0 x1	7 x4	5 x8
0 x6	7 x1	2 x5	6 x9	3 x9	1 x6	5 x0	6 x6	2 x1	7 x9

A proper adjective is formed from a proper noun and always begins with a capital letter. In some cases, a proper noun keeps the same form when used as a proper adjective.

April is my favorite month. I enjoy April showers.

In other cases, as with names of places, the proper adjective often adds one of the endings listed below.

-an	American, Texan, Tibetan, Alaskan
-ese	Chinese, Japanese, Lebanese
-ian	Canadian, Italian, Californian
-ish	Spanish, Irish, English

Rewrite each group of words by changing the proper nouns to proper adjectives.

a suit from Italy---an Italian suit

a skier from Austria_____

a heat wave in August_____

a tour of Alaska_____

a river in Asia_____

a poem from Japan_____

a birthday in November_____

a student from Taiwan_____

a painting from China_____

Choose one of the following to write about:

- tell about your favorite family holiday
- what's the most beautiful place you have ever visited, give details
- give a detailed paragraph on how you prepare your favorite lunch

After you write, go back and check the following. If your paragraph does not meet these requirements, rewrite it:

- Does it have 9-12 sentences?
- Does it follow the correct type of writing style?
- Does it use correct spelling and punctuation?

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Your final requirement for the day is to read. Choose a book that is at your reading level. There are many book recommendations online or you can check out my blog www.plainandnotsoplain.com. Write the book title and how long you read for today. You should read for a minimum of an hour per day.

_____

amount read_____

week 10

Writing Equations

Write an equation that represents each sentence.

Nine more than a number x is 12. $x+9=12$

Twenty-four is a number t divided by 3 $24=\frac{t}{3}$

Write an equation that represents the relationship in the following sentences.

A financial software package costs $115, which is $25 more than the cost of a game software package.

Choose a variable to represent the unknown number.

The cost of the financial package is $115

Let g= cost of the game package

Then g+25 = cost of the financial package

So g+25=115

Your turn:

Write an equation that represents each sentence:

Three times a number x is 18

Sixteen is a number m divided by 3

A number t more than 9 is 17

A number z decreased by 3 is 39

The product of 15 and a number k is 105

Two subtracted from a number b is 9

The low temperature on Monday was 10 F , which is 15F less than the low temperature on Sunday

Last week Collin earned $297, which is twice the amount that Greg earned.

9 x1	2 x2	5 x1	4 x3	0 x0	9 x9	3 x5	8 x5	2 x6	4 x7
5 x6	7 x5	3 x0	8 x8	1 x3	3 x4	5 x9	0 x2	7 x3	4 x 1
2 x3	8 x6	0 x5	6 x1	3 x8	1 x 1	9 x0	2 x8	6 x4	0 x7
7 x7	1 x4	6 x2	4 x5	2 x4	4 x 9	7 x0	1 x2	8 x4	6 x5
3 x2	4 x6	1 x9	5 x7	8 x2	0 x8	4 x2	9 x8	3 x6	5 x5
8 x9	3 x7	9 x7	1 x7	6 x0	0 x3	7 x2	1 x5	7 x8	4 x0
8 x3	5 x2	0 x4	9 x5	6 x7	2 x7	6 x3	5 x4	1 x0	9 x 2
7 x 6	1 x 8	9 x6	4 x 4	5 x3	8 x1	3 x3	4 x8	9 x3	2 x0
8 x0	3 x1	6 x8	0 x9	8 x7	2 x 9	9 x4	0 x1	7 x4	5 x8
0 x6	7 x1	2 x5	6 x9	3 x9	1 x6	5 x0	6 x6	2 x1	7 x9

The comparative form of an adjective compares two things or people. The superlative form of an adjective compares more than two things or people. For most adjectives of one syllable and some of two syllables, -er, and –est are added to form the comparative and superlative.

I am big. I am bigger than my sister (comparative). I am the biggest in my family (superlative).

For most adjectives of two or more syllables, the comparative or superlative is formed by adding more or most before the adjective. Never use more or most with adjectives that already end with –er and –est.

Amy is more adventurous than Greg. (comparative). Collin is the most adventurous of all. (superlative)

Some adjectives have irregular comparative forms.

Adjective	Comparative	Superlative
good, well	better	best
bad	worse	worst
many, much	more	most
little(amount)	less	least
little(size)	littler	littlest

Write C if the sentence is written correctly. Write N if the sentence is not correct.

The bestest vacation Amy ever took was a trip to Michigan._____

It is also the largest park in the United States._____

Of all the U.S. parks, Yellowstone has the most extensive wildlife preserve._____

The park has much natural wonders that are amazing to behold._____

There are most geysers and hot springs than any other place in the world._____

You are the most pretty person I have ever seen._____

You are way more beautifuller than I have been told._____

Some erupt oftener than others._____

We have learned what a complete sentence is right? A complete sentence has three parts:

1. a subject (the who or what in the sentence)
2. a predicate (the verb or action)
3. a complete thought (it can stand alone and make sense-its independent)

Some sentences can be very short with only two or three words expressing a complete thought like this:

Jim waited.

This sentence has a subject (Jim) and a verb (waited), and it expresses a complete thought. We can understand the idea completely with just those two words, so its independent.

You can expand it to include more information:
Jim waited for the bus all morning in the hot sun last Wednesday.
Run On

You make a run-on when you put two complete sentences together in one sentence without separating them properly. Here is an example:

My favorite Mediterranean spread is hummus it is very garlicky.

This one sentence contains two complete sentences. You should separate it with a comma and a coordinating conjunction. (for, and, nor, but, or yet, so):

My favorite Mediterranean spread is hummus, and it is very garlicky. or you could do two separate sentences.

Your turn: Identify whether each of the following is FRAGMENT, RUN-ON, or SENTENCE. If it is a fragment or run-on correct the error.

While I was going to the store yesterday.

_____

I made tacos for dinner last night they were good.

_____

I ran.

_____

After going to the concert, Greg was tired.

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Some problems describe a relationship between two or more numbers. To solve this type of problem, choose a variable to represent one of the unknown numbers in the problem. Use that variable to write expressions for the other unknown numbers. Then use the facts of the problem to write an equation. You solve the problem by solving this equation and finding the unknown numbers.

A parking garage charges $5 for the first hour and $3 for each additional hour. On a recent day, a motorist paid $23 to park a car in the garage. How many hours was the car parked in the garage?

The problem is about the cost of parking a car in a parking garage. Facts: $5 for first hour, and $3 for each additional hour. Total number was $23.

Find: the number of hours the car was parked.

To solve, you choose a variable and decide what the variable will represent. Use the variable to write expressions and then an equation for the problem. Solve the equation to answer the question.

Let h= the number of additional hours the car was parked. Then 3h= the cost for the additional hours. The cost for the first hour plus the cost for the additional hours is $23.

5 + 3h=23 then solve for h:

$$5+3h=23$$
$$-5 \qquad -5$$
$$3h=18$$
$$3 \qquad 3$$

h=6—the car was parked for 1+ 6=7 hours.

Your turn: solve using an equation:

The greater of two numbers is nine less than four times the other number. If the greater number is 71, find the lesser number.

Evan bought a computer system for $989. He made a $125 down payment and paid the remaining in twelve equal payments. What was the amount of each payment?

Solve any way:

Collin bought 5 shirts at $14 each and six pairs of socks at $3.50 each. What was the total cost of his purchase?

REVIEW

64 oz=_____lb

The sum of three times a number and seven is 55. Find the number.

6m+3=-15 89=10q-11

Write a variable expression that represents each phrase.

A number z divided by fourteen

Seven more than a number n is 35.

Amy has twenty-two CDs, which is nine fewer than Danielle has.

4739-322 86545÷5

Demonstrative adjectives point out something and describes nouns by answering the question which one? or which ones? The words this, that, these, and those are demonstrative adjectives when they describe nouns.

This, that, these, and those can also be used as demonstrative pronouns. They are pronouns when they take the place of nouns.

Demonstrative adjectives	Demonstrative pronouns
This book is exciting.	This is an exciting book.
That plot is convincing.	That is a realistic setting.

Your turn: Underline the word that best completes each sentence.

Did Amy find (that, those) missing shoes?
(This, These) windows need to be repaired.
(Those, That) man must be over seven feet tall!
Did Amy say she was bringing (this, those) kinds of cookies?
I believe (these, this) is what you're looking for.
I think (these, this) plan of yours is quite practical.
(Those, These) animals over there are ours.
Not just anyone can do (this, these) job you know.
(That, This) pass was way over his head!
How about (them, those) Tigers!

Making outlines. When writing, you can use an outline to help you organize your information better. You pick your main points and that will be the I, II, III, IV and then you do subheadings A B C D and further if needed 1,2,3..

I. Most influential person in my life
   a. my school teachers
      i. Mr. Monroe
      ii. Mrs. Mackay
   b. my mom

The above is an example. Now you are going to write a basic outline of a story about yourself. The more thorough you are in your outline the easier it will be to write. This can be about a particular time in your life, a summer, a year of big changes, etc. Remember I will be your introduction, what you want your narrative essay to be about. II, III, IV…will be individual things you want to talk about and the last one will be your conclusion. Then go further under those and write A, B,C telling what you want to say.

Go over this a few times so that you get an accurate outline, it will help in the writing process.

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_____

amount read_____

Solve equations by simplifying expression involving combining like terms and the distributive property.

Solve $4x + 3x = 560$

Add the two variables by combining like terms $4x + 3x = 7x$

$7x = 560$ Divide each side by 7 and your answer is 80

Your turn:

$7n + 4n = 132$

$2(3v+4) = -40$

$-5c + 9c = -20$

$5(2x+7) = 45$

$4y + 7 + 8y = 43$

$36 = 6b - 6 + b$

$-12 = 3(2x-10)$

$36 = 4(z+11)$

56÷7=	15÷3=	12÷6=	8÷2=	63÷7=	0÷4=
14÷2=	42÷6=	6÷1=	16÷8=	20÷5=	49÷7=
36÷4=	64÷8=	0÷3=	54÷9=	4÷2=	48÷8=
18÷9=	3÷1=	35÷5=	8÷4=	72÷8=	6÷6=
0÷5=	42÷7=	2÷2=	36÷9=	7÷1=	12÷3=
16÷2=	30÷5=	0÷1=	28÷7=	4÷4=	40÷8=
3÷3=	32÷8=	45÷5=	4÷1=	20÷4=	15÷5=
56÷8=	5÷1=	0÷8=	6÷2=	45÷9=	0÷6=
6÷3=	21÷7=	0÷9=	7÷7=	12÷4=	18÷6=
63÷9=	18÷3=	27÷9=	24÷3=	0÷2=	28÷4=
21÷3=	16÷4=	24÷8=	10÷5=	30÷6=	1÷1=
18÷2=	27÷3=	32÷4=	9÷1=	35÷7=	40÷5=
10÷2=	8÷8=	48÷6=	5÷5=	8÷1=	24÷6=
25÷5=	9÷3=	81÷9=	24÷4=	14÷7=	12÷2=
9÷9=	54÷6=	72÷9=	0÷7=	2÷1=	36÷6=

An adverb modifies, or describes a verb, an adjective, or another adverb. An adverb may tell when, where, how, to what extent. Many are formed by adding –ly to the adjective. However not all words ending in-ly are adverbs. The words kindly, friendly, lively, and lovely are usually adjectives.

Draw an arrow from each adverb to the word it modifies. A sentence may have more than one adverb.

When hiking in the American West, you must proceed carefully.

People walking in rocky areas sometimes come across rattlesnakes.

Some people are quite afraid of snakes.

If not provoked, rattlesnakes are not very dangerous.

People often find rattlesnakes in dry, rocky areas.

Snakes will often lie in the sun to get warm.

If the temperature drops quickly, a rattlesnake can die.

Today make sure that your outline is finished. You are to write your intro and conclusion in your outline.

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Your final requirement for the day is to read. Choose a book that is at your reading level. There are many book recommendations online or you can check out my blog www.plainandnotsoplain.com. Write the book title and how long you read for today. You should read for a minimum of an hour per day.

_____

amount read_____

A formula is an equation that states a relationship between two or more quantities. The quantities are usually represented by variables. The variable used is often the first letter of the word it represents.

For instance, the distance formula represents a relationship between distance (D), rate (r), and time (t).

distance=rate x time or D=rt

Find the distance when r=55 mi/hr and t =3hours

Find the time when D=240 mi and r=40 mi/hour.

Use the formula C=p-d where C represents cost, p represents price, and d represents discount.

p=$50, d=$5, and C=

p=$240, d=$60, C=

Geometry is a branch of mathematics that involves many formulas. These include formulas for perimeter and area. In order to do problems in geometry, you will often have to work with formulas.

Remember the area of a rectangle is A=lw Area=length x width

length is 8 and width is 2, what is the area of the rectangle?

56÷7=	15÷3=	12÷6=	8÷2=	63÷7=	0÷4=
14÷2=	42÷6=	6÷1=	16÷8=	20÷5=	49÷7=
36÷4=	64÷8=	0÷3=	54÷9=	4÷2=	48÷8=
18÷9=	3÷1=	35÷5=	8÷4=	72÷8=	6÷6=
0÷5=	42÷7=	2÷2=	36÷9=	7÷1=	12÷3=
16÷2=	30÷5=	0÷1=	28÷7=	4÷4=	40÷8=
3÷3=	32÷8=	45÷5=	4÷1=	20÷4=	15÷5=
56÷8=	5÷1=	0÷8=	6÷2=	45÷9=	0÷6=
6÷3=	21÷7=	0÷9=	7÷7=	12÷4=	18÷6=
63÷9=	18÷3=	27÷9=	24÷3=	0÷2=	28÷4=
21÷3=	16÷4=	24÷8=	10÷5=	30÷6=	1÷1=
18÷2=	27÷3=	32÷4=	9÷1=	35÷7=	40÷5=
10÷2=	8÷8=	48÷6=	5÷5=	8÷1=	24÷6=
25÷5=	9÷3=	81÷9=	24÷4=	14÷7=	12÷2=
9÷9=	54÷6=	72÷9=	0÷7=	2÷1=	36÷6=

The comparative form of an adverb compares two actions. The superlative form of an adverb compares more than two actions. Long adverbs and adverbs ending in –ly require the use of more or most. Shorter adverbs need –er, or –est as an ending.

comparative	superlative
more accurately	most accurately
harder	hardest

Some have irregular forms

adverb	comparative	superlative
well	better	best
badly	worse	worst
little(amount)	less	least

Fill in each blank with correct form

adverb	comparative	superlative
swiftly	more swiftly	most swiftly
easily		
fast		
neatly		
	more rapidly	
	farther	
		most dangerously
		best
		most happily
		most fully
	more incredibly	
soon		

Start writing your personal narrative essay. Do it in Microsoft Word. It will count the words for you. You want between 500-800 words. One page is about 250 words with double spaced lines. Take your time today and do it. Have your teacher check it.

If you don't have access to a computer, you can write it out. Count your words.

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_____

amount read_____

week 11

REVIEW

Is the given number a solution of the equation write Yes or No

x-3=7; 10

9=t+7;16

Use mental math to solve:

11=r +6

$13=\frac{b}{5}+3$

Solve and check.

r +12=15

b-4=-6

1+4n=9

-13=5+2r

Write a variable expression that represents each phrase.

6 less than 8 times a number q

4 more than twice the number of tickets sold yesterday

7 times as many books as Autumn read last year

Write an equation that represents the relationship:

A number x decreased by 15 is 33.

Jim has 48 cars, which is three times as many as Mike has.

Solve:

-2x-7x=18

110=5(1+3k)

Use the formula C=np, where C is the total cost, n is the number of items purchased, and p is the price per item.

Amy spent $60 for 8 tickets. What was the price of each ticket?

Solve:

-72=6p-30

$15+\frac{m}{8}=20$

Write a variable expression:

eighteen more than four times a number z

ten times the number of books Sam sold

Write an equation:

A number n divided by 8 is 90

Solve:

-12x+3+5x=38

6(8+3q)=66

Adverbs and adjectives are often confused, especially when they appear after verbs. A predicate adjective follows a linking verb. An adverb follows an action verb.

The words bad, badly, good, and well, can be confusing. Bad and good are adjectives. They are used after linking verbs. Badly and well are adverbs. They describe action verbs. When used after a linking verb to describe a person's health, well is an adjective.

Adjective	Adverb
This movie is bad.	The actors performed badly.
I don't feel very well.	The seats recline well.

People often confuse real and really, sure, and surely, most and almost. Real, sure, and most are adjectives. Really, surely and almost are adverbs.

Adjective	Adverbs
Swimming is a real workout.	Swimming is really fun.
A skater needs sure feet.	To go fast is surely the most fun.

Choose the correct word in parentheses.

Amy's (sure, surely) delivery guaranteed the success of her speech.

Jim had (most, almost) completed the lifesaving class at the YMCA.

We didn't do too (bad, badly) all things considered.

Learning bird songs and calls is a (good, well) way to identify them.

My algebra test is today, and I don't feel very (well, good).

Always walk (quiet, quietly) in the woods in case you come upon some bear.

The baby ducklings (ready, readily) took to the water.

Ashlyn finished the quiz(most quick, most quickly) of all.

Write a short paragraph about your favorite extracurricular activity. Include several adjectives and adverbs. Go back through and circle them in your writing.

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_____

amount read_____

Some equations have variables on both sides. To solve, you need to get the variable alone on one side.

*Remember whatever you do to one side, you have to do to the other side.

Practice:

$7n+10=3n+2$

$5h-7=2h+2$

$1+9h=4h+11$

$2v+7=4v-19$

$8x+17=9x-8$

$-7g=2g+36$

$-5+12v=11v-7$

$8u=6u-20$

9 x1	2 x2	5 x1	4 x3	0 x0	9 x9	3 x5	8 x5	2 x6	4 x7
5 x6	7 x5	3 x0	8 x8	1 x3	3 x4	5 x9	0 x2	7 x3	4 x 1
2 x3	8 x6	0 x5	6 x1	3 x8	1 x 1	9 x0	2 x8	6 x4	0 x7
7 x7	1 x4	6 x2	4 x5	2 x4	4 x 9	7 x0	1 x2	8 x4	6 x5
3 x2	4 x6	1 x9	5 x7	8 x2	0 x8	4 x2	9 x8	3 x6	5 x5
8 x9	3 x7	9 x7	1 x7	6 x0	0 x3	7 x2	1 x5	7 x8	4 x0
8 x3	5 x2	0 x4	9 x5	6 x7	2 x7	6 x3	5 x4	1 x0	9 x 2
7 x 6	1 x 8	9 x6	4 x 4	5 x3	8 x1	3 x3	4 x8	9 x3	2 x0
8 x0	3 x1	6 x8	0 x9	8 x7	2 x 9	9 x4	0 x1	7 x4	5 x8
0 x6	7 x1	2 x5	6 x9	3 x9	1 x6	5 x0	6 x6	2 x1	7 x9

Negative words express the idea of “no.” **Not often appears in a shortened form as part of a contraction.**

Examples of Contractions with NOT

is not= isn’t will not = won’t do not = don’t had not = hadn’t

was not-wasn’t could not-couldn’t

Other negative words are listed below. Each negative word has several opposites. These are affirmative words or words that show the idea of “yes.” Examples include:

Negative	affirmative
never	ever, always
nobody	anybody, somebody
none	one, some, all, any

Be careful to avoid using two negative words together in the same sentence. This is called a double negative. Correct a double negative by removing one of the negative words or by replacing one with an affirmative word.

Place a check next to the sentence that is correct.

____Evan hasn’t never saved that amount of money.

____Evan hasn’t ever saved that amount of money.

____He didn’t do anything about that cut on his arm.

____He didn’t do nothing about that cut on his arm.

Fill in the blank with a correct negative word.

Greg_____have not known someone planned a surprise party.

There isn’t _____paper in the copier.

_____can take the place of the photo I lost.

I want you to choose a story that you are reading or have read recently. I want you to fill out the following:

The setting: (where the story takes place)_____

Main characters:

Tell a little about each character in sentence form:

The main plot of the story:

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_____

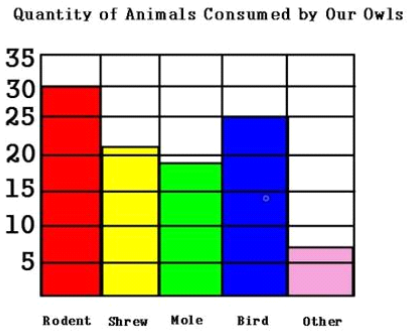
amount read_____

A graph is a picture that displays numerical facts, called data. One type of graph that you often see is a pictograph. In this type of graph, a symbol is used to represent a given number of items. A key on the graph tells you how many items the symbols represent. It is important to note that pictographs show only approximations of the data.

From the graph above, about how many chocolates were sold?

How many more bags of chips over candy were sold?

Do an internet search and find more examples of pictographs and figure out the data from them.



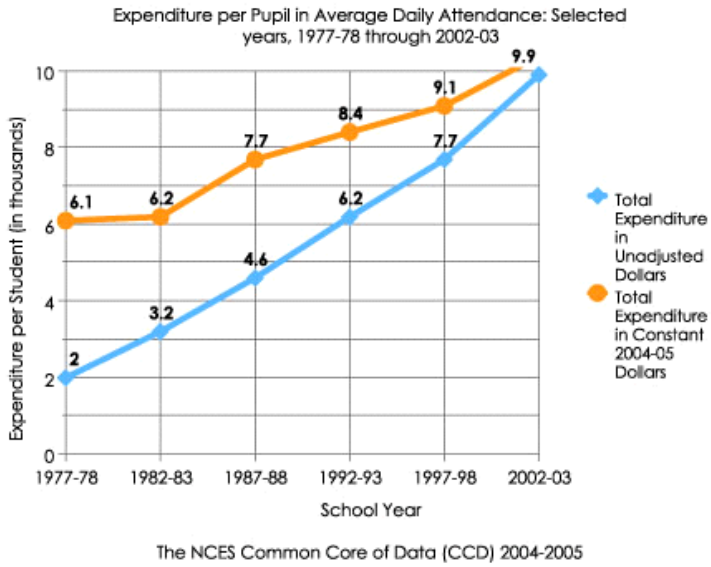
Another type of graph is a bar graph. This makes it easier to compare things. It has two axes. One axis is labeled with a numerical scale. The other is labeled with the categories. When reading a bar graph, you might find it is often necessary to estimate where the bars end.

Using the above graph.

What is the animal that is mainly consumed by owls?

About how many birds and moles are consumed by owls?

Do an internet search on different bar graphs so that you can understand them.



Another type of graph is called a line graph. A line graph shows an amount and a direction of change in data over a period of time. In a line graph the data are represented by points. These points are connected by line segments.

If a series of segments on a line graph slopes upward over a given interval, there is an increasing trend in the data over that interval. If a series of segments slopes downward, there is a decreasing trend over that interval.

Double line graphs such as the one above, are useful for comparing trends in two sets of data.

You will put these tools to work in tomorrow's lesson.

Complete each sentence by writing in the blank the type of word indicated in parentheses.

The pesky pooch shuffled_____across the dark room.(adverb)

We decided to eat at a _____restaurant.(proper adjective)

I suggest that you don't _____argue with them.(adverb)

That float was _____best in the entire parade.(definite article)

_____reptiles in that cage are called tuataras.(demonstrative adjective)

That tree produces the _____-cherries! (adjective superlative form)

Draw one line under each noun and two lines under each verb.

Greg and Amy buried themselves in their work.

Collin prefers politics to football.

Aunt Sarah cannot decide which lamp is best.

Many stars become visible above the clouds.

North Carolina boasts several tourist attractions.

Before Wednesday, Lauren will have completed her report.

Visitors to the museum often enjoy the planetarium.

Draw one line under each adjective and two lines under each adverb. Ignore the articles a, an, the. Draw an arrow from each to the word it modifies.

A playful squirrel ran quickly to the tree.

Falling snow already has covered the landscape.

Church bells rang merrily.

Neighbors often bring me marvelous apples.

She carefully chose a new piece of jewelry.

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_____

amount read_____

Draw a bar graph to display the data.

Adults participating in Leisure Activities (millions)

activity	bicycling	swimming	softball	volleyball
adults	60	39	75	34

Draw a line graph to display the data.

Average payment period, finance company loans on new cars.

year	1994	1995	1996	1997	1998	1999	2000
number of months	48.3	53.5	50	53.5	56.2	54.2	60

A preposition is a word that relates a noun or pronoun to another word in a sentence. Prepositions of more than one word are compound prepositions.

about	beside	in	through
above	besides	inside	to
across	between	into	toward
after	beyond	like	under
against	but	near	until
along	by	of	up
among	concerning	off	upon
around	down	on	with
at	during	onto over	within
before	except	past	without
behind	for	since	
below	from		
beneath			

Compound prepositions:

according to	aside from	in front of	instead of
across from	because of	in place of	on account of
along with	far from	in spite of	on top of

Underline each preposition or compound preposition.

A bazaar is an Asian marketplace held inside the city.

Some bazaars are located along a single, narrow street.

Others spread throughout a number of streets.

One section could house a huge covered bazaar with four hundred shops.

Let’s walk into the yard through the gate.

Remember how to write a friendly letter? Do one today. Write to a relative or a friend far away. Include all the parts: heading, greeting, body, closing, signature. You should be able to make it much longer than you used to. Work on 10 sentences.

_____

_____

_____

_____

_____:

_____
_____
_____
_____
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_____
_____
_____
_____
_____
_____
_____

_____

_____

Your final requirement for the day is to read. Choose a book that is at your reading level. There are many book recommendations online or you can check out my blog www.plainandnotsoplain.com. Write the book title and how long you read for today. You should read for a minimum of an hour per day.

_____

amount read_____

week 12

Mean, Median, Mode, and Range

That branch of mathematics that deals with collecting, organizing, and analyzing data is called statistics. Statisticians use graphs and a variety of statistical measures to describe a set of data.

The mean or average of a set of data is the sum of the data items divided by the number of items.

The median of a set of data is the middle number when the data are listed in numerical order. If there is an even number of items, the median is the average of the two middle numbers.

The mode of a set of data is the item that appears most often. There can be more than one mode. There can also be no mode, if each item appears only once.

The range of a set of data Is the difference between the greatest and least values of the data.

*When you divide to find the mean, you may get an answer with many decimal places. When this happens you should round the answer to the nearest tenth.

Your turn:

Find the following from 2,7,7,10,12

mean

median

mode

range

Find the following from 20,16,22,16,15,20,21,16

mean

median

mode

range

56÷7=	15÷3=	12÷6=	8÷2=	63÷7=	0÷4=
14÷2=	42÷6=	6÷1=	16÷8=	20÷5=	49÷7=
36÷4=	64÷8=	0÷3=	54÷9=	4÷2=	48÷8=
18÷9=	3÷1=	35÷5=	8÷4=	72÷8=	6÷6=
0÷5=	42÷7=	2÷2=	36÷9=	7÷1=	12÷3=
16÷2=	30÷5=	0÷1=	28÷7=	4÷4=	40÷8=
3÷3=	32÷8=	45÷5=	4÷1=	20÷4=	15÷5=
56÷8=	5÷1=	0÷8=	6÷2=	45÷9=	0÷6=
6÷3=	21÷7=	0÷9=	7÷7=	12÷4=	18÷6=
63÷9=	18÷3=	27÷9=	24÷3=	0÷2=	28÷4=
21÷3=	16÷4=	24÷8=	10÷5=	30÷6=	1÷1=
18÷2=	27÷3=	32÷4=	9÷1=	35÷7=	40÷5=
10÷2=	8÷8=	48÷6=	5÷5=	8÷1=	24÷6=
25÷5=	9÷3=	81÷9=	24÷4=	14÷7=	12÷2=
9÷9=	54÷6=	72÷9=	0÷7=	2÷1=	36÷6=

When a pronoun is the object of a preposition, use an object pronoun and not a subject pronoun.

The subject pronoun “who” is never the object of a preposition; only the object pronoun “whom” can be an object.

The woman to whom I spoke is from Canada.

Of whom did you ask directions?

Underline the pronoun that best completes the sentence.

For (who, whom) are these party favors intended?

Did you give instructions to Mark and (she, her)?

Is this carnation plant intended for (he, him)?

I explained the situation to Mickey, Sam, and (her, she).

For his brother and (he, him) sleeping late meant rising at eight.

They were telling stories about (who, whom)?

The party was a surprise to (me, I).

Evan should have called you or (I, me).

Fill in the chart with an example of a part of speech.

noun			
pronoun			
adjective			
adverb			
preposition			
conjunction			
verb			

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_____

amount read_____

Calculating statistical measures for data in a frequency table.

Mrs. Smith's first period gym class was doing a unit on health. The students were asked to measure their pulse rates. They organized the data in a frequency table shown below.

Pulse Rates (beats/min)		
rate	tally	frequency
69	~~IIII~~ I	6
70	~~IIII~~ I	6
71	I	1
72	~~IIII~~ ~~IIII~~	10
73	~~IIII~~ I	6
	total	29

Do you see how the students made tally marks to count how many students had the amount of that pulse? Then they wrote the frequency.

From this information you can find the mean, median ,mode, and range from this frequency table.

Multiply each rate by its frequency: 69•6=414
70•6=420
71•1=71
72•10=720
73•6=438
ADD: 2063

Divide by the total of the frequencies: 2063÷29=71.1

The mean is about 71.1 beats/min

There are twenty-nine items. The median is the middle item, so look for the 15th item. The median is 72 beats/min.

Subtract 73-69=4. The range is 4 beats/min.

Your turn. Use an online search to find the minimum age requirement for obtaining a moped license in each of the fifty states. Make a frequency table for the data.

Then use your frequency table that you made and find the mean, median, mode, and range of the data.

A coordinating conjunction is a word that connects part of a sentence. And, but, or, for, nor, are coordinating conjunctions.

To strengthen the relationship between words or groups of words use a correlative conjunction. Correlative conjunctions are pairs of words that connect words or phrases in a sentence. Include both…….. and, either…….. or neither…… nor, and not only…but also.

When a compound subject is joined by the conjunction “and” it takes a plural verb.

Amy and Greg are class officers.

When a compound subject is joined by “or or nor” the verb agrees with the nearest part of the subject.

Neither the girls nor Mrs. Maryon is afraid of the dogs.

Draw two lines under the correct form of the verb in parentheses. Circle each coordinating or correlative conjunction

Neither the basketball players nor their coach(likes, like) the facility.

Red hots and candy corn (is, are) Brooklyn’s favorite candy.

Both Tim and Jim (dislike, dislikes) winter.

Fruits and vegetables (is, are) part of a balanced diet.

Neither the dogs nor the cats (was, were) trained.

Write each sentence. Use capital letters correctly.

rule 1: Capitalize the first word of every sentence.
rule 2: Capitalize the first word of a direct quotation that is a complete sentence. A direct quotation gives a speaker's exact words.
rule 3: Capitalize the first word in the salutation and the closing of a letter. Capitalize the title and the name of the person addressed.

the capital of japan is tokyo.

_____

i read the view from saturday by e.i. konigsburg this summer.

_____

about 86 million people watched the last episode of seinfeld in 1998.

_____

following my doctors's advice, i've been taking healthy teen vitamins since december.

_____

"is english spoken in africa?" asked sam, who was writing a report on the nation.

_____

the clark's sent me a postcard from yosemite national park in april.

_____

is mt.mckinley the highest mountain in north america, in northern or southern alaska?

_____

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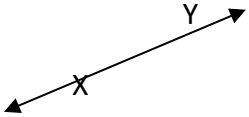
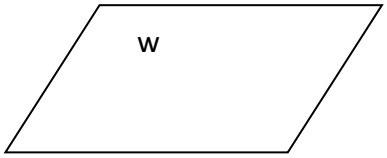
_____

amount read_____



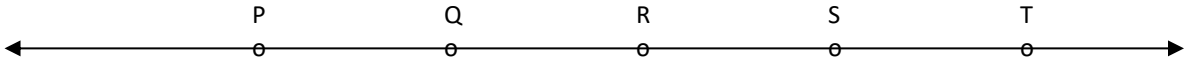


A point is an exact location in space. A point has no size, but you use a dot to represent a point. You name a point by a capital letter. point A

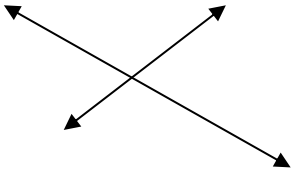
A line is a straight arrangement of points that extends forever in opposite directions. You can name a line using any two points on the line. line XY it is also written $\overleftrightarrow{XY}$

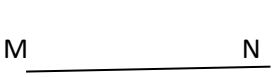
A plane is a flat surface that extends forever. A plane has no edges, but you can use a four-sided figure to represent a plane. You can name a plane using a capital letter. plane W

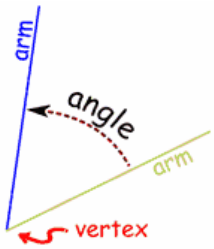
Points that lie on the same line are called collinear points. In the figure below, points P,Q,R,S, and T are collinear.



Two lines that meet at one point are said to intersect in that point.







A line segment is a part of a line that consists of two endpoints and all the points between. You name a line segment using its endpoints. line segment MN

A ray is a part of a line that has one endpoint and extends forever in one direction. You name a ray by writing the end point first, then writing one other point on the ray. ray YZ

When two rays share a common endpoint, the figure that is formed is an angle. The endpoint is called the vertex of the angle, and the rays are called the sides.

To name an angle using three letters, the vertex letter must be in the center.

Your turn:

Draw a line GH

Draw angle ONM

Draw line segment HG

Draw point P

line Q

Angle NMO

plane r

An interjection is a word or group of words used to express strong feeling or to attract attention. Use interjections sparingly in your writing because overuse spoils their effectiveness.

Common interjections

aha come on ha oh ouch what yes

awesome good grief oops well wow

An interjection that expresses very strong feeling may stand alone. An interjection that expresses milder feeling remains a part of the sentence.

Oh my, I've lost my phone again.

The exams are finally over. Hooray!

Write an interjection in the blank.

_____you can't catch me!

_____what's going on here?

_____!Didn't you understand a word I said

That was a rough test._____!

_____-are you going to play cards or talk?

Rule 1: Capitalize the names of people and the initials that stand for their names.

Rule 2: Capitalize a title or an abbreviation of a title when it comes before a person's name. *Don't capitalize a title that follows a name or one that is used as a common noun.

Rule 3: Capitalize the names and abbreviations of academic degrees that follow a name. Capitalize Jr. and Sr.

Rule 4: Capitalize words that show family relationships when they're used as titles or as substitutes for names. (Last year Father and Aunt Sue went to the South.)

Rule 5: Always capitalize the pronoun I

Write each sentence and capitalize letters correctly.

ross is going to see dr. adams.

_____

amy's homeroom teacher is ms. morris.

_____

greg has finished his report on president kennedy.

_____

jimmy carter, former president of the united states, continues to work for the american people.

_____

"the nurse made the appointment," said dad.

_____

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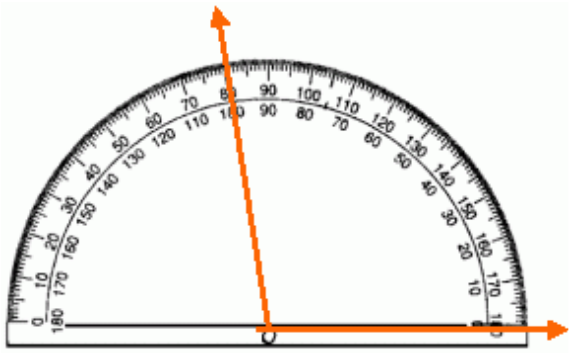
_____

amount read_____

Protractor

The architect who plans a building usually presents the plan in a blueprint. A blueprint shows not only the sizes of pieces such as walls and built in cabinets, but also their positions in relation to each other. To show positions accurately, the architect indicates the size of the angle formed where these pieces meet.

The unit that is commonly used to measure the size of an angle is the degree. The number of degrees in an angle's measure indicates the amount of openness between the sides of the angle. To measure an angle, you use the geometric tool called a protractor.



Use a protractor to measure the angle. Put the center mark of the protractor on the vertex of the angle. Place the 0 degrees mark on one side of the angle, then read the number where the other side crosses the scale. The measure of this is 100 degrees.

Use a protractor to draw angle RST with a measure of 160 degrees.

Use a protractor to draw an angle of 35 degrees

Use a protractor to draw an angle of 90 degrees

Draw angle JKL, which has a measure of sixty degrees.

A simple sentence has one complete subject and one complete predicate. The subject the predicate or both may be compound.

A compound sentence contains two or more simple sentences. Each simple sentence is called a main clause. Main clauses may be joined by a comma followed by a conjunction or by a semi colon.

Lightning struck our oak, but it did not fall.

Lightning struck our oak; it did not fall.

Write whether each sentence is simple or compound.

_____Volcanoes can sit idle, or they can erupt frequently.

_____Pressure and heat inside the earth melt rock.

_____A volcano is formed from magma.

_____It is called the Cascade Range, and it includes Mount Saint Helens.

_____Earth is not the only planet with volcanoes.

_____Paul has a great interest in volcanoes; he hopes to become a volcanologist.

Rule 1: Capitalize the names of cities, counties, states, countries, and continents.

Rule 2: Capitalize the names of bodies of water and other geographical features.

Rule 3: Capitalize the names of sections of a country (New England, the Great Plains)

Rule 4: Capitalize direction words when they name a particular section of a country. (the South, the West Coast)

Rule 5: Capitalize the names of streets and highways

Rule 6: capitalize the names of particular buildings, bridges, monuments, and other structures.

Write each sentence using capital letters correctly.

matthew is going to fly to southern california.

_____

aunt judy lives on mitchell road.

_____

do you live in new england?

_____

we decided to visit the statue of liberty.

_____

is lake michigan one of the great lakes?

_____

the atlantic ocean and the pacific ocean have similarities and differences.

_____

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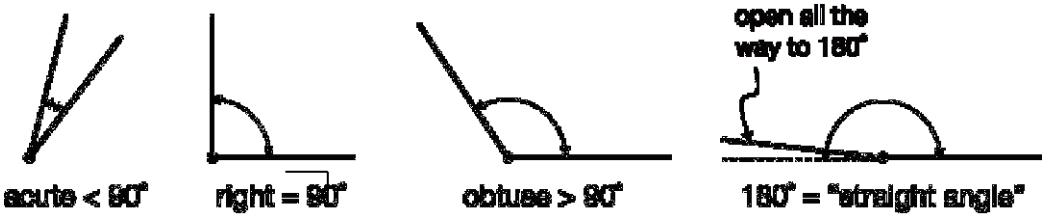
_____

amount read_____

week 13

Types of angles



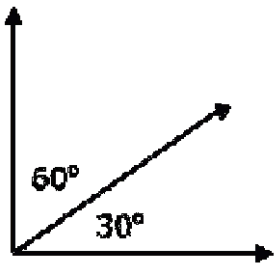
An acute angle is anything less than 90 degrees.

A right angle is exactly 90 degrees. A small square indicates a right angle.

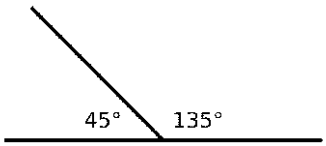
An obtuse angle is greater than 90 degrees.

A straight line is 180 degrees.

Two angles are complementary when the sum of their measures is 90 degrees.

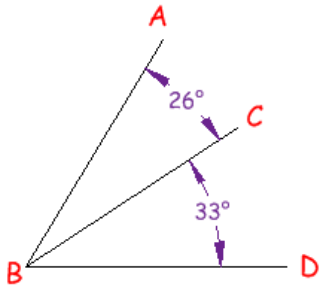


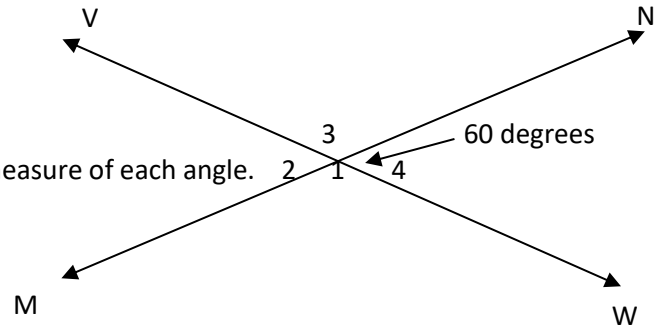
Two angles are supplementary when the sum of their measures is 180 degrees.



Two angles that share a common side, but do not overlap each other are called adjacent angles.

In the figure below at the left, <ABC and <CDB are adjacent, but <ABD and <CBD are not.





Use the figure at the right to find the measure of each angle.

<2 and <3

<2 and <4 are vertical angles, they are equal. since <4 is 60 degrees then <2=60°

<3 and <4 are supplementary angles, so m<3=180°-m<4=180°-60°=120°

Your turn:

Tell whether two angles with the given measures are complementary, supplementary, or neither:

40°,50°

125°,55°

12°,88°

Replace each ____with always, sometimes, or never to make a true statement.

A supplement of an obtuse angle is _____an acute angle.

A complement of an acute angle is _____-an obtuse angle.

The measure of an angle is_____equal to the measure of its supplement.

Two vertical angles that are supplementary are _____right angles.

A complex sentence contains a main clause and one or more subordinate clauses. A main clause can stand alone as a sentence. A subordinate clause has a subject and predicate, but it is not a complete sentence. It depends on the main clause to complete its meaning.

Main clause	Subordinate clause
We didn't know	that the paint was wet
This is the place	where I dropped my pen.

Underline each main clause.

The game will be postponed because the rain is falling steadily.

Although it rained all day, we still enjoyed our trip.

Whenever the wind blows the trees against the windows, the dog howls.

Evan felt responsible for the missing book though it was not his fault.

Sarah can mail these packages if they have enough postage on them.

The pool will be cleaned when spring comes.

Rule 1: Capitalize all important words in the names of clubs, organizations, businesses, institutions, and political parties.

Rule 2: Capitalize brand names but not the nouns following them. (Kruncho crackers)

Rule 3: Capitalize all important words in the names of particular historical events, time periods, and documents (Revolutionary War)

Rule 4: Capitalize the days of week, months of year, and holidays. Don't capitalize the season.

Rule 5: Capitalize the first and last word in titles of books, plays, short stories, poems, TV series, songs, newspapers, etc. Capitalize all other words except articles, conjunctions, and prepositions fewer than 5 letters.

Rule 6: Capitalize the names of languages, nationalities, and ethnic groups.

Rule 7: Capitalize all proper adjectives. (Mexican art)

Rule 8: Capitalize all names of religion, sacred writings

Rule 9: Capitalize the names of trains, ships, airplanes, and spacecraft.

Write each sentence using capital letters correctly.

evan is attending the university of florida in the fall.

_____

in december we will travel to michigan for the christmas holiday.

_____

have you read the outsiders?

_____

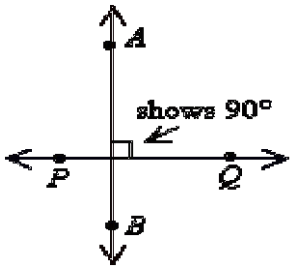
the movie star wars has been re-released.

_____

Your final requirement for the day is to read. Choose a book that is at your reading level. There are many book recommendations online or you can check out my blog www.plainandnotsoplain.com. Write the book title and how long you read for today. You should read for a minimum of an hour per day.

_____

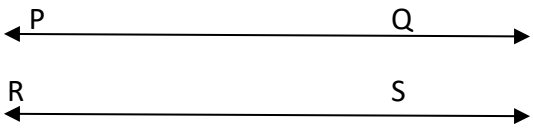
Two lines that intersect to form right angles are perpendicular lines.



In the figure you see that <AQ is a right angle by the box. So you know that AB and $\overleftrightarrow{PQ}$ are $\overleftrightarrow{\ }$ perpendicular. The symbol for is perpendicular to is ⊥

Line AB is perpendicular to line XY $\overleftrightarrow{AB} \perp \overleftrightarrow{XY}$

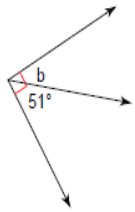
Two lines in the same plane that do not intersect are parallel lines. In these two lines they will always remain the same distance apart, so they are parallel. The symbol for parallel is ||



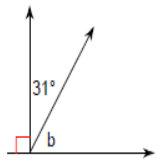
$\overleftrightarrow{PQ} \parallel \overleftrightarrow{RS}$

Your turn: Find the measure of the angles b in each of the following:

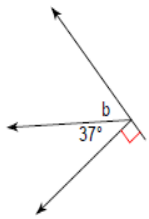
1)



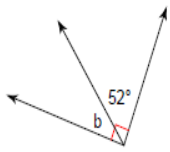
2)



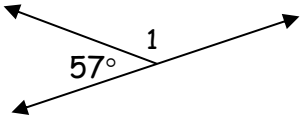
3)

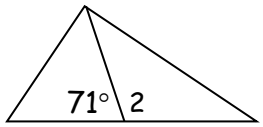


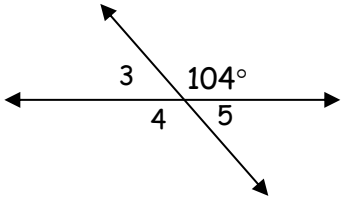
4)

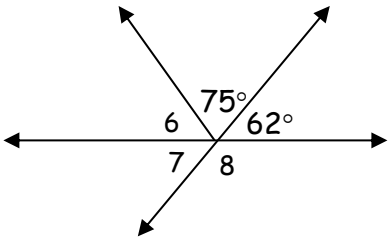


Find the measures of angles 1 through 8.

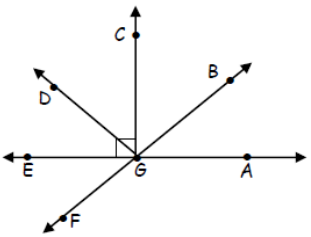








Use the diagram on the right to name:



a) two complementary angles

b) two adjacent angles

Choose the correct pronoun in parentheses. Then write whether each sentence is declarative, interrogative, imperative, or exclamatory.

_____Where did (he, him) leave the instructions?

_____Don't forget to send an invitation to (them, they).

_____Place Mother's flowers on the table, and take the card to (its, her).

_____Brooklyn and Jadyn are donating (her, their) old clothing to a local charity.

_____Who can deliver Evan's homework to (her, him)?

_____(We, Us) travelers sometimes forget to pack everything.

_____(Those, Them) were the best doughnuts Amy had ever tasted.

_____Wow! Greg surprised even (herself, himself)!

Practice capitalization. Write each sentence correctly.

“do you want to visit me?” she asked when she last talked to kim smith on the phone.

_____

in terms of land area, the smallest state is the u.s.a. is rhode island.

_____

a museum in detroit focuses on african american history.

_____

i’m going to take a french class this summer.

_____

ferdinand Magellan, from Portugal, sailed around the tip of south America.

_____

the empire state building in new york city is 102 stories high.

_____

my father gave me a subscription to seventeen magazine.

_____

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_____

A shape is any closed two dimensional geometric figure that has an inside and an outside. A solid is just like a shape, only it's three dimensional.

Shapes are two basic types: polygons and nonpolygons. A polygon has all straight sides, and you can identify by the number of sides they have.

Polygon	Number of sides
Triangle	3
Quadrilateral	4
Pentagon	5
Hexagon	6
heptagon	7
octagon	8
nonagon	9
decagon	10

Any shape that has at least one curved edge is a nonpolygon. The most common is a circle.

Draw me a pentagon

Draw me a hexagon

56÷7=	15÷3=	12÷6=	8÷2=	63÷7=	0÷4=
14÷2=	42÷6=	6÷1=	16÷8=	20÷5=	49÷7=
36÷4=	64÷8=	0÷3=	54÷9=	4÷2=	48÷8=
18÷9=	3÷1=	35÷5=	8÷4=	72÷8=	6÷6=
0÷5=	42÷7=	2÷2=	36÷9=	7÷1=	12÷3=
16÷2=	30÷5=	0÷1=	28÷7=	4÷4=	40÷8=
3÷3=	32÷8=	45÷5=	4÷1=	20÷4=	15÷5=
56÷8=	5÷1=	0÷8=	6÷2=	45÷9=	0÷6=
6÷3=	21÷7=	0÷9=	7÷7=	12÷4=	18÷6=
63÷9=	18÷3=	27÷9=	24÷3=	0÷2=	28÷4=
21÷3=	16÷4=	24÷8=	10÷5=	30÷6=	1÷1=
18÷2=	27÷3=	32÷4=	9÷1=	35÷7=	40÷5=
10÷2=	8÷8=	48÷6=	5÷5=	8÷1=	24÷6=
25÷5=	9÷3=	81÷9=	24÷4=	14÷7=	12÷2=
9÷9=	54÷6=	72÷9=	0÷7=	2÷1=	36÷6=

Subjects and verbs

If the subject of a sentence is singular then the verb of the sentence must also be singular. If the subject is plural, then the verb must also be plural. When the subject and the verb are both singular or plural, they are said to agree in number.

Draw two lines under the correct form of the verb in parentheses.

Cows (produce produces) milk at the farm.

This airplane (fly, flies) to Chicago.

A wave (crash crashes) against the shoreline.

Jadyn (bake, bakes) cookies once a week.

You and I (train, trains) for the same position in the office.

This container (hold, holds) one liter of liquid.

President Kenner (leave, leaves) at two o'clock.

Write each sentence. Add commas, semi colons, and punctuations where needed.

Will you stop and see me after you finish your lesson

_____

Yes Sam I did remember the key this time

_____

The Sandburg's lived in Flat Rock North Carolina from 1943 until Carl's death on July 22 1967.

_____

Mix these ingredients well two eggs a cup of sugar one-half cup of butter and a teaspoon of vanilla.

_____

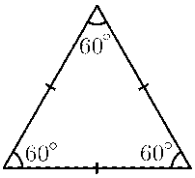
Your final requirement for the day is to read. Choose a book that is at your reading level. There are many book recommendations online or you can check out my blog www.plainandnotsoplain.com. Write the book title and how long you read for today. You should read for a minimum of an hour per day.

_____

amount read_____

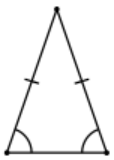
Triangles are a type of 3-sided polygon. Triangles are classified on the basis of their sides and their angles.

An equilateral triangle, has three sides that are all the same length and three angles that measure 60 degrees. Look back at your protractor.

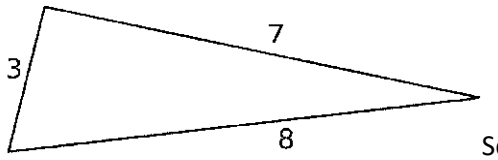


Equilateral

Isosceles triangle, has two sides that are the same length and two equal angles.

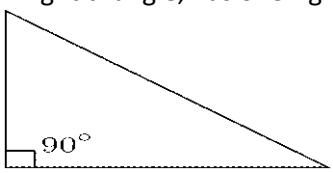

Isosceles Those marks show that those sides are equal and that those angles are equal.

Scalene triangle has three sides that are all different lengths and three different sized angles.



Scalene

A right triangle, has one right angle and it may be isosceles or scalene.



right

The triangle inequality.

In any triangle, the sum of the lengths of any two sides is greater than the length of the third side.

Tell whether line segments of the given length can or cannot be the sides of a triangle. If they can, tell whether the triangle would be scalene, isosceles, or equilateral.

8ft, 7ft, 9ft

First compare each sum of two lengths to the third length.

8+7=15>9 8+9=17>7 7+9=16>8

Each sum of two lengths is greater than the third, so the line segments can be the sides of the triangle. No lengths are the same, so the triangle is scalene.

Your turn:

9m,3m,4m

Another way to classify triangles is by the measure of their angles.

Acute triangle -all angles are less than 90°.

Right triangle -one angle is a right angle—represented by the little square in the corner.

Obtuse triangle- one angle is an obtuse angle.

All angles within a triangle equal 180°. If we are given two angle measurements, we can find the other one.

The measures of two angles of a triangle are 28 and 40 degrees. Tell whether the triangle is acute, right, obtuse.

Add the known measures together: 28+40=68. Subtract that from 180. 180-68=112 degrees.

The third angle measure is 112, so the triangle is obtuse.

Your turn:

Tell whether the line segments of the given lengths can or cannot be the sides of a triangle. If they can, tell whether the triangle would be scalene, isosceles, or equilateral.

1 ft, 1 ft, 1 ft

Making a subject and verb agree is easy when the verb directly follows the subject. However, sometimes a prepositional phrase comes between the subject and its verb.

The bag on the bed belongs to Sam. (bag subject—belongs verb)

Inverted sentences are those in which the subject follows the verb. Some of these sentences begin with a prepositional phrase.

Here in the kitchen are the toys you ordered. (are verb and toys subject)

Some interrogative sentences may have a helping verb before the subject. The subject is found between the helping verb and the main verb.

Does this store sell CD's? (store is subject, sell is main verb and does is helping verb)

Circle the subjects in the following sentences.

The streets in this city contain little trash.

Do the ingredients in these cereals include sugar?

Alaska, before becoming part of the United States was called "Icebergia."

Americans in each region of the country speak with distinct accents.

Does he think this is going to work?

The pieces of the puzzle fit together nicely.

Only one bird in our yard has built its nest.

In the desert live many plants.

Write each sentence, add quotation marks, apostrophes, and other punctuation marks.

How were the pyramids built asked Kim What a remarkable feat of engineering

_____

Those beliefs are very different from yours and mine

_____

A tomb included its inhabitants earthly treasures

_____

The pharaohs monument was built by peasants

_____

Your final requirement for the day is to read. Choose a book that is at your reading level. There are many book recommendations online or you can check out my blog www.plainandnotsoplain.com. Write the book title and how long you read for today. You should read for a minimum of an hour per day.

_____

amount read_____

week 14

Tell whether the line segments of the given lengths can or cannot be the sides of a triangle. If they can, tell whether the triangle would be scalene, isosceles, or equilateral.

6cm, 4.5 cm, 4.5 cm

6 mm, 9mm, 4mm

The measures of two angles of a triangle are given. Tell whether the triangle is acute, right, or obtuse.

27, 141 degrees

50 degrees, 50 degrees

34°,56°

Tell whether each statement is True or False.

An obtuse triangle can have a right angle.

An equliateral triangle is also an isosceles triangle.

A right triangle can be a scalene triangle.

An acute triangle can never be an equilateral triangle.

REVIEW

Use the formula $P=2l+2w$. Let $l=11$cm and $P=34$ cm. Find w

Find the quotient $6/7 \div 2/3$

Find the difference $-13-(-24)$

$632 \times 25.98=$

A collective noun names a group. It has a singular meaning when the group acts as a unit. For example: The team wants to play. (one group, singular) It has plural meaning when showing that each member of the group acts as an individual. For ex: The team agree to purchase their own shirts. (individuals, plural)

Your turn:

Underline the simple subject of each sentence.

Ms. Maryon's class is interested in bugs.

Two weeks have been spent studying insects.

Television news excites several of the students.

Matthew's family gives tours of the television station where his mom works.

The school band volunteers to sell flowers for the school.

Two weeks pass before all the classes are done.

Current events fill the top interest in my class.

Rule 1: Use a period at the end of declarative sentence.

Rule 2: Use a period at the end of an imperative sentence.

Rule 3: Use a question mark at the end of an interrogative sentence.

Rule 4: Use an exclamatory point at the end of an exclamatory sentence.

Rule 5: Use an exclamation point after a strong interjection. For ex: Wow!

Your turn. Write each sentence and add correct end punctuation.

I am taking karate lessons at the YMCA

_____

Hey Did you see that boy's awesome kick

_____

Are they asking members of the class to join the swim team

_____

Keep your body straight and your knees together

_____

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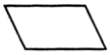
_____

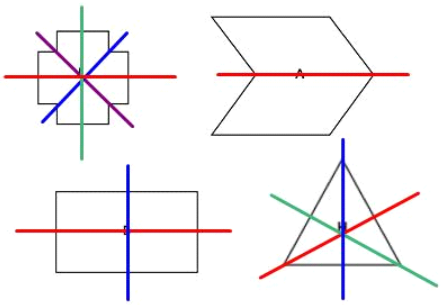
amount read_____

Classification of Quadrilaterals

Shape	Characteristic	Name
	No sides parallel	Trapezium
	Exactly one pair of parallel sides	Trapezoid
	Two pairs of parallel sides	Parallelogram
	Parallelogram with congruent sides	Rhombus
	Parallelogram with right angles	Rectangle
	Rectangle with congruent sides	Square

Note that squares, rectangles, and rhombuses are types of parallelograms and that a square is a type of rectangle and a type of rhombus.

Line of symmetry. To draw a line of symmetry that divides each geometrical plane exactly in half is called line of symmetry. Here are some examples.



Your turn:

Draw a trapezoid

Draw a parallelogram

Does a kite have a line of symmetry

Does a snowflake have a line of symmetry

Which of the following letters has a line of symmetry: G Q F M

5325÷25 round to two decimal places

32298x8=

Indefinite pronouns do not refer to a specific person, place, or thing.

Examples include: another, anybody, anything, each, either, everybody, everyone, much, neither, nobody, no one, nothing, few, many, others, several, all, any ,most, some.

Circle the correct form of the verb in parentheses.

Another person (wants want) to look at the bike.

One (tell, tells) us about his days in baseball.

Either of these books (convey, conveys) the mood of the 1970s.

Everybody (wants want) a copy of that show.

Both of these jobs (is, are) outstanding.

Everything in the room(appears, appear) to be in order.

Most of the dancers(perform, performs) the same steps.

No one (know knows) how hard we worked on this meal.

Somebody(want, wants) to talk to you.

Commas

Rule 1: Separate three or more words, phrases, and clauses in a series.
Rule 2: Set off an introductory word such as yes, no, or well.
Rule 3: Set off names used in direct address. Ex: Did you enjoy the food, Kim?
Rule 4: Set off two or more prepositional phrases at the beginning of sentence.
Rule 5: Set off participles and participial phrase at beginning of sentence. Ex: Talking, we lost track of time.
Rule 6: Set off words that interrupt the flow of thought in a sentence.
Rule 7: Use a comma after a conjunctive adverb such as however, furthermore, etc.
Rule 8: Set off an appositive that is not essential to meaning of sentence. For Ex: The Titanic, a luxury liner, sank on its first voyage. (luxury liner is not essential)

Write and add commas where they are needed.

Waiting for her friends Danielle paced impatiently in the hallway.

_____

I assure you Mom I will be careful when I drive.

_____

The kittens playing on the living room floor looked like a furry, tangled whirlwind.

_____

Can you meet us at the store Collin?

_____

The baseball sailed high in the air over the fence and into the street.

_____

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_____

amount read_____

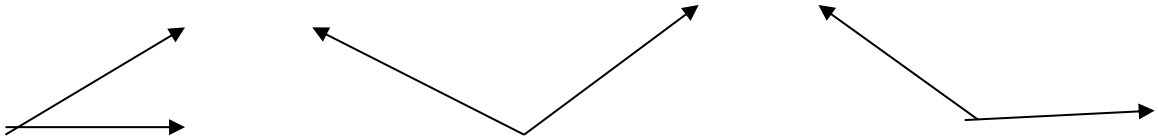
REVIEW

Draw a line segment GH

Draw an acute angle PQR

Draw a parallelogram

Use a protractor to measure each angle.



Use your protractor to draw an angle of the given measure.

25° 165° 62°

Find the measure of a complement of an angle of the given measure.

24° 45° 88°

Find the measure of a supplement of an angle of the given measure:

30° 85° 75°

Tell whether the triangle would be scalene, isosceles, or equilateral

8cm, 8cm, 8cm

7mm, 24mm, 25mm

Tell whether the triangle is acute, right, or obtuse.

15,52 degrees

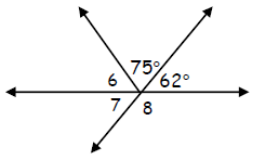
45, 45 degrees

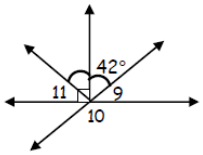
38, 67 degrees

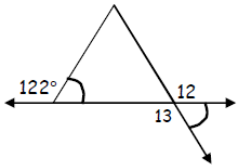
Draw an oval with a line of symmetry

Find the angle measurements of :

6
7
8
9
10
11
12
13







Circle the correct form in parentheses.

Either a cup or a glass (hold, holds) water.

The budget committee (accept, accepts) your proposal.

Here on the table (lay, lies) the missing keys.

Basketball, football, and baseball (is, are) popular sports.

Scissors (come, comes) in all sizes.

Circle the verbs:

Schools are rarely closed in Tuxedo because of the harsh winter weather.

The huge airliner quickly descended in preparation for landing.

Circle the adverbs:

The little boy slept peacefully on a blanket.

The howling of the wolf echoed early through the canyon.

Circle the adjectives:

Moods and attitudes are lifted by a bright and sunny day.

The hurricane caused harsh fall weather.

Circle the nouns:

The old Model T's were equipped differently from cars today.

Pollution and over-fishing lead to severe problems for the fishing industry.

Circle the prepositional phrases:

The members of the new group perform tonight.

Across the lawn was the little boy.

More commas:

Rule 1: Use a comma before a coordinating conjunction that connects two parts of a compound sentence. (and, but, or, for, nor)

Rule 2: Use a comma to set off an adverb clause at the beginning of a sentence. An adverb clause begins with a subordinating conjunction (after, although, as, before, if, since, until unless, wherever, etc.)

Rule 3: Set off a nonessential adjective clause. Generally gives extra information not necessary to meaning of sentence. Usually begins with: who, whom, whose, which or that. Ex: My home, which has green trim, is at the end of the street. Don't set off essential adjective clause. For ex: The home that has green trim is at the end of the street.

Write each sentence and add commas.

Evan planted lettuce and onions in April but he waited until June to plant the other vegetables.

_____

Since he cannot drive my brother rides his bike.

_____

We can play dolls after the dishes are done.

_____

The platypus which has a bill like a duck is a mammal.

_____

Your final requirement for the day is to read. Choose a book that is at your reading level. There are many book recommendations online or you can check out my blog www.plainandnotsoplain.com. Write the book title and how long you read for today. You should read for a minimum of an hour per day.

_____

amount read_____

Factors and Prime Numbers

Remember that when one whole number is divisible by a second whole number, the second number is a factor of the first. A whole number greater than 1 with exactly two factors, 1 and the number itself, is called a prime number. A composite number has more than two factors.

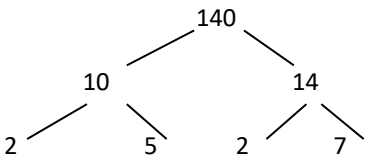
Tell whether each number is prime or composite.

11= The only factors of 11 are 1 and 11. Prime

21= The factors of 21 are 1,3,7, and 21. Composite

31= The only factors of 31 are 1 and 31. Prime

You can make trees to find the prime factorization of a number.



$140=2\bullet2\bullet5\bullet7=2^2\bullet5\bullet7$

Rewrite each statement using exponents.

$450=2\bullet3\bullet3\bullet5\bullet5$

your turn:

Find all the factors of each number

48 64 37

Tell whether each number is prime or composite

27 100 19 96

Find the mean, median, mode, and range

84,96,72,77,91

Find the sum 9/16+3/4

Write the prime factorization of 96

Find the answer -12-(-12)

Find the next three expressions in the pattern:

20n+5, 18n+5, 16n+5, _____,_____,_____

542x2.2

8932÷20 to two decimal places

Words that are similar can easily be misused.

accept, except

Accept means “to receive” except means “other than”

all ready, already

All ready means “completely prepared”. Already means “before”

all together, altogether

All together means “in a group.” Altogether means “completely.”

a lot

A lot is two words meaning “very much”. Never write as one word.

Write yes if the sentences are written correctly. Write no if not.

____Our class has all ready studied about France.

____Our mom was glad to see us all together at the party.

____I had all ready been there once before.

____We were altogether amazed by the news.

____I really can’t eat anything accept soup.

_____Evan could not accept the expensive gift.

_____A lot of people watch the parade.

_____The piano was delivered and is all ready to be played.

Write four sentences about what you do in the morning before school. Include the words accept, except, all ready, already, and altogether.

_____

_____

_____

_____

More comma rules:

Rule 1: In a date set off the year when it is used with both the month and the day. Don't use a comma if only the month and the year are given.
Rule 2: Set off the name of a state or country when it is used after the name of a city. Set off the name of a city when used after a street address. Don't use a comma after the state if it is followed by a zip code.
Rule 3: Set off an abbreviated title or degree following a person's name.
Rule 4: Set off "too" when it is used in the middle of sentence and means "also". Ex: Parents, too, will eat cake.
Rule 5: Set off direct quotation.
Rule 6: Use comma after salutation of friendly letter and after closing of letter.

Write and add commas:

"My uncle Sam won the cow-roping event at the rodeo in Sandusky Michigan" said Dane Anter.

_____

Evan reported "The United States entered World War II on December 8 1941 the day after Japan attacked Pearl Harbor."

_____

_____

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_____

week 15

Greatest common factors

A number that is a factor of two numbers is called a common factor of those two numbers. The greatest number in a list of common factors is called the greatest common factor GCF.

Find the GCF of 28 and 40.

28:1,2,4,7,14,28

40:1,2,4,5,8,10,20,40

The common factors of 28 and 40 are 1,2,4

The GCF of 28 and 40 is 4.

To find the GCF of variable expressions, include in it the least power that appears for each common variable factor.

Find the GCF of $12a^4$ and $27\ a^6$

$12a^4=2^2 \bullet 3 \bullet a^4$

$27a^6=3^3 \bullet a^6$

$GCF=3 \bullet a^4=3a^4$

Your turn:

Find the GCF

2 and 16

40 and 100

45,72,108

Find the GCF

48a and 51 a

$18y^5$ and $30y^2$

True or False

The GCF of an odd and an even number is always an odd number.

The GCF of a prime number and an even number is always odd.

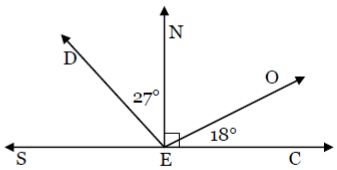
The GCF of a prime number and an odd number is always odd.

REVIEW

Find the measure of each angle.

a. m∠NEO = _____ b. m∠DES = _____

c. m∠DEO = _____ d. m∠SEO = _____



beside, besides

Beside means **“next to.”** Besides means **“in addition to.”**

between, among

Use between for two people or things. Use among when talking about groups of three or more.

bring, take

Bring means “to carry from a distant place to a closer one” Take means “to carry from a nearby place to a distant one”

can, may

Can indicates ability. May asks permission

fewer, less

Fewer with nouns that can be counted, use less with nouns that cannot count.

Choose the correct form

(Among, between) some of these special behaviors is hibernation.

You (can, may) study hibernation for your project if you like.

Because an animal in this state needs (fewer, less) energy to stay alive, it can live off fat stored in its body.

(Beside, besides) the animal’s body temperature being lower than normal, its heart rate slows down.

(Bring, Take) this letter to the post office.

(Choose, chose) your friends wisely.

There were (fewer, less) hot days this summer

Traffic is (fewer, less) congested tonight.

Quotation marks

Rule 1: Enclose a direct quotation
Rule 2: Enclose each part of an interrupted quotation.
Rule 3: Use commas to set off an explanatory phrase, such as "he said", from the quotation itself. Place commas inside closing quotation marks. For ex: "Spiders," explained Evan, "have eight legs."
Rule 4: Place a period inside closing quotation marks.
Rule 5: Place a question mark or exclamation point inside closing quotation marks if it is part of the quotation.
Rule 6: Enclose in quotation marks titles of short stories, essays, poems, songs, articles, book chapters, and single television shows that are part of a series.
Rule 7: Use italics or underlining for titles of books, plays, movies, television series, newspapers, works of art, music albums. Also use underlining or italics for names of ships, airplanes, and spacecraft. Don't italicize the word "the" before the title of a magazine or newspaper.

Write the following sentences properly.

Have you heard Beethoven's Fifth Symphony asked Mr. Smith.

_____

This book said Brooklyn is my all-time favorite.

_____

Kim's article Forgotten Children appeared in Time magazine.

_____

The sources for my report said Amy are Sports Illustrated and The Fab Five by Mitch Albom.

_____

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_____

amount read_____

Equivalent Fractions

Fractions that represent the same amount are called equivalent fractions. Remember doing the Z method?

Sometimes at the beginning of a fraction problem, you need to increase the terms of a fraction. This means to write the fraction using a greater numerator and denominator. To increase the terms, multiply both the numerator and denominator by the same number. Also known as the backward Z method.

$$\frac{4}{5} = \frac{\quad}{15}$$

You say to yourself…how many times does 5 go into 15? Three times. Then 3 x4 = 12. 12 is your answer

You solve:

Increase the terms of the fraction 2/3 so that the denominator is 18. Write it out with the above method.

Increase the terms of the fraction ¾ so that the denominator is 16.

Increase the terms of the fraction 1/8 so that the denominator is 64.

Increase the terms of the fraction ½ so that the denominator is 12.

Increase the terms of the fraction 4/5 so that the denominator is 25.

Reducing fractions to lowest terms

Reducing fractions is similar to increasing fractions, except it involves division rather than multiplication. But sometimes you can't always divide so reducing takes a little bit more work☺

When reducing fractions, it's helpful to know your factoring. We did that a little bit ago. (Trees and GCF).

When shown a fraction, think in your head, what is the greatest number that will divide evenly into those numbers.

Reduce $\frac{12}{15}$ to lowest terms.

I would have to think what factors make up 12: 2,3,4,6
Which make up 15: 3,5
What is the largest common factor between the two? answer is 3.
Take and divide BOTH the numerator and denominator by 3
3 goes into 12=4 times
3 goes into 15=5 times Your answer is $\frac{4}{5}$

Reduce the following fractions to lowest terms:

$\frac{25}{75}$=_____ $\frac{15}{25}$=_____ $\frac{11}{33}$=_____

$\frac{12}{16}$=_____ $\frac{20}{30}$=_____ $\frac{14}{28}$=_____

$\frac{12}{60}$=_____ $\frac{135}{180}$=_____ $\frac{32}{40}$=_____

Usage

formally, formerly

Formally is the adverb form of formal and means “according to certain form.” Formerly means “in times past.”

in, into

In means “inside”. Into indicates movement from outside to a point within.

its, it’s

Its is the possessive form of the personal pronoun it. It’s is the contraction of it is.

lay, lie

Lay means “to put” or “to place.” Lie means “to recline” or “to be positioned.”

Choose the correct form.

(Its, It’s) not unusual to see zebras at the zoo.

I asked mom if I could (lay, lie) down for a while.

The clerk put the groceries (in, into) the bag.

(It’s, Its) chocolate bars that I prefer.

Some people (learn, teach) by example.

(Lay, Lie) the baked goods on the table in the kitchen.

As I walked (in, into) the room, I saw many of my friends.

The room down the hall was (formally, formerly) mine.

The path to our camp (lies, lays) ahead of us.

Using apostrophes

Write each sentence correctly.

Well bring Amys yearbook to her in the hospital.

_____

Ill arrange for the girls rooms if youll get the registration packet from the coaches booth.

_____

_____

Lets go to the fair two Sundays in a row.

_____

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_____

amount read_____

Simplifying algebraic fractions

You have worked with fractions in arithmetic. You can apply what you know to work with fractions in algebra. A fraction that contains a variable is called an algebraic fraction.

In arithmetic 3/5—the top is the numerator and the bottom denominator

In algebra a/b-the top is the numerator and the bottom denominator

Any fraction represents a division, so you know that the denominator of a fraction cannot be zero.

You simplify a fraction or an algebraic fraction by writing it in lowest terms. To do this, write the prime factorization of both the numerator and the denominator, then divide by all the common factors.

Simplify $\frac{10xy}{8x}=\frac{2\bullet 5\bullet x\bullet y}{2\bullet 2\bullet 2\bullet x}=\frac{5y}{4}$

Your turn:

$$\frac{6z}{14}$$

$$\frac{10j}{15j}$$

$$\frac{a^9}{a^6}$$

$$\frac{30}{6y}$$

Simplify the algebraic fraction whose numerator is 21n and whose denominator is 3n

Simplify the algebraic fraction whose numerator is b^6 and whose denominator is 6b

Simplify

$$\frac{9z^{15}}{3z^3}$$

$$\frac{20m^8}{24m^3n^2}$$

$$\frac{3a^4b^3}{15a^2b}$$

Usage

leave, let

Leave means “to go away.” Let means “to allow.”

loose, lose

Loose means “not tightly attached.” Lose means “to misplace”.

many, much

Use many with nouns that can be counted. Use much when nouns cannot be counted.

Precede, proceed

Precede means “to go or come before.” Proceed means to continue.

quiet, quite

Quiet means “calm”. Quite means “completely.”

raise, rise

Raise means “to cause to move upward.” Rise means “to move upward.”

Set, sit

Set means “to place, or to put “ Sit means “ to place oneself in a seated position.”

Choose correct form.

(Many, Much) of Kim’s friends visited her in the hospital.

We were told to (proceed, precede) as if nothing happened.

I (leave, let) my brother borrow my skateboard.

(Much, many) of the human body is made up of water.

I (set, sit) the suitcase in the guest room.

The soldiers will (raise, rise) the flag at noon.

Where did you (set, sit) my keys?

Hyphens

Rule 1: Use hyphen to divide a word at the end of a line. Divide only between syllables.

Rule 2: Use a hyphen in compound numbers.

Rule 3: Use a hyphen in fractions expressed in words.

Rule 4: Use hyphen in certain compound words. Ex: brother-in-law

Rule 5: Use a hyphen in a compound modifier when it comes before the word it modifies. ex: Ruby is a well-trained dog.

Write the following sentence correctly.

Our team made fifty five bookmarks while Sarah's made seventy three.

_____

Can you divide three fifths by one half?

_____

Great grandmother is ninety one; she was the first woman to serve as editor in chief of a major newspaper.

_____

_____

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_____

amount read_____

Comparing fractions with cross multiplication

This is a great tool to know when comparing two fractions. Sometimes a math question could be, **"Is 1/2 larger than 3/8?"** How do you know? This is how you do it!

1. Multiply the numerator of the first fraction by the denominator of the second, writing the answer below the first fraction.

2. Multiply the numerator of the second fraction by the denominator of the first, writing the answer below the second fraction.

Then you multiply the denominators of the two fractions to find the new denominator..

What fraction is greater 5/8 or 6/11?

$$\frac{5}{8} \quad \frac{6}{11}$$

55 48

Then multiply the denominators 8•11=88 Use this number as your common denominator:

$\frac{55}{88}$ $\frac{48}{88}$ Since 55/88 is greater than 48/88, 5/8 is larger than 6/11

Which is the greater fraction: 2/9 or 4/7

Which is greater 3/5 or 6/11

Which is least 1/3 or 2/7

Which is greater

1/6 or 1/7

21/30 or 7/10

5/12 or 3/8

¾ or 7/9

Usage

than, then

Than introduces the second part of a comparison. Then means “at that time.”

their, they’re

Their is the possessive form. **They’re** is the contraction of *they are*.

theirs, there’s

Theirs means “that or those belonging to them.” There’s is the contraction of there is.

to, too, two

Two is the number, too means also, to means “in the direction of.”

who’s, whose

Who’s is the contraction of who is, Whose is the possessive form

Your, you’re

Your is the possessive form, you’re is the contraction for you are.

Choose the best word.

He (then, than) wrote music for that company.

After touring, he returned (two, to) his country.

If (your, you’re) an opera fan, you should listen to Mozart.

Music can sometimes express emotion better (then, than) the spoken word.

Musicians often find (their, they’re) gifted in almost every kind of musical composition.

Most musical comedies have more spoken dialogue (then, than) do operas.

(Theirs, There’s) usually an emotional story behind every successful opera.

Abbreviations

Rule 1: Use the abbreviations Mr. Mrs., Ms. Dr. before a person's name. Junior is Jr. and Senior is Sr.

Rule 2: Use capital letters and no periods for abbreviations that are pronounced letter by letter or as words. Exceptions are U.S. and Washington D.C. Ex: MVP or EST (eastern standard time and most valuable player)

Rule 3: Use a.m. before noon and p.m. after noon. B.C. (before Christ) A.D. (after Christ)

Rule 4: Abbreviate days and months only in charts and list

Rule 5: In scientific writing abbreviate units of measure. Use periods with abbreviations of US units but not with metric.

Rule 6: In addressing envelopes, abbreviate words that refer to streets. St. Ave. Rd.

Rule 7: When addressing envelope use the two-letter postal code for states.

Practice.

Write the abbreviation for each item described.

feet
the day after Tuesday
the fourth month
Senior
central standard time
grams
six minutes past ten in the morning
the abbreviation used before a woman's name (married)

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_____

amount read_____

week 16

Fractions and decimals

You can write any fraction as a decimal by dividing the numerator by the denominator. When the division results in a remainder of zero, the decimal is called a terminating decimal. When the remainder is not zero and a block of digits in the decimal repeats, the decimal is called a repeating decimal. You indicate that a block of digits repeats by putting a bar over those digits.

Write each fraction or mixed number as a decimal.

7/11—type in the calculator you get 0.63636363 that is a repeating decimal, write it as $=\overline{0.63}$

1 3/8 type in the calculator 3 divided by 8 you get =0.375 add the 1 in front= 1.375

Write each decimal as a fraction or mixed number in lowest terms.

0.555

$\frac{555}{1000}=\frac{111}{200}$

4.24

$4+\frac{24}{100}=4\frac{6}{25}$

Changing decimals to fractions

There are some common decimals to fractions converts that you should memorize in life.

.1= 1/10
.2= 1/5
.3= 3/10
.4= 2/5
.5=1/2
.6= 3/5
.7=7/10
.8=4/5
.9= 9/10

25= ¼
.50= ½
.75= ¾

.125=1/8
.375=3/8
.625=5/8
.875=7/8

$\overline{.33}$= 1/3 or .3
$\overline{.66}$= 2/3 or .6
the bar means repeating number

The other ones you will have to do a different approach and do some work.

0.3, the 3 is in the tenths place. So you put 3 over 10: $\frac{3}{10}$

.27 the 27 goes over to the hundredths place, So you put 27 over 100: $\frac{27}{100}$
**remember to reduce down if at all possible.

Your turn:

Rewrite each repeating decimal with a bar over the repeating digits.

0.416666….

1.825825

Write each decimal as a fraction whose denominator is a power of ten

0.18

9.44

Write each fraction or mixed number as a decimal

9/20

7 1/3

Write each decimal as a fraction or mixed number in lowest terms.

0.205

3.62

REVIEW

Choose the best word

Both German shepherds and golden retrievers (make, makes) excellent guide dogs.

The captain and leader of our team (is, are) Sam.

Everyone here (join, joins) a fitness club.

This machine (transmit, transmits) the written word over the telephone line.

(Do, Does) many states irrigate land to increase productivity?

On the pond(float, floats) many beautiful flowers.

Ten years (is, are) a long time to go without seeing your family.

The principal or the teachers (phone, phones) each new family.

The eight cents (was, were) burning a hole in the little girl's pocket.

English (is, are) my favorite class this year.

Writing numbers
Rule 1: Spell out numbers that can be written in one or two words. Ex: twenty-six or fifty-five hundred
Rule 2: Use numerals for numbers of more than two words. Ex: the distance is 150 miles.
Rule 3: Spell out any number that begins a sentence or rewrite so it doesn't begin with a number.
Rule 4: Use figures for numbers greater than 999,999. Ex: **1,000,000; 250,000,000,000**
Rule 5: Numbers of same kind should be written in same way. If one number must be written as a numeral, write all the numbers as numerals. Ex: Monday, 432 students voted for the books and 40 voted against it.
Rule 6: Spell out ordinal numbers (first, second)
Rule 7: Use words to write the time of day unless using a.m. or p.m.
Rule 8: Use numerals to write dates, house numbers, street numbers , telephone numbers, page numbers, amounts of money of more than two words, and percentages.

Write each sentence correctly.

I have added 76 new stamps to my collection.

_____

It is exactly 399 miles from our door to Sam's.

_____

Send 10 pizzas to Apartment Four A, two thousand forty-six South Lincoln Avenue.

_____

The fall sale will last from November eighteen to November 23 and will offer twenty-five % off all regular-priced merchandise.

_____

_____

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_____

amount read_____

Write each fraction or mixed number as a decimal

7/10 3/5

9/11 1/33

4 4/25 9 13/15

Write each decimal as a fraction or a mixed number in lowest terms

0.432 0.525

0.19 3.32

$0.\overline{16}$ $2.\overline{6}$

Use a calculator, find the decimal equivalents for the fractions:

1/5

1/15

1/25

1/50

1/30

1/35

1/45

Draw a diagram to answer the following questions.

Greg lives 8 blocks due east of Collin. Collin lives 3 blocks due west of Evan. Where does Evan live in relation to Greg.

How many diagonals can be drawn in a hexagon?

An elevator started at ground level. It raised 15 floors, descended 3 floors, raised 8 floors, descended 12 floors, and descended 2 floors. At this point, where was the elevator relative to ground level?

REVIEW

Underline each prepositional phrase and draw an arrow to word it modifies.

The whirlwind raised a cloud of dust.

Sam parked his bike on the narrow street.

Their costumes were authentic beyond belief.

The money was divided evenly among the four girls.

Walking toward the crowd, Collin wondered what was happening.

He found his keys under the cushion.

The road crew worked throughout the night.

The door to the house was locked.

The birthday present for the surprise party was hidden.

Amy lived near the lake.

The children will take the cat to the porch.

REVIEW

Write each sentence add quotation marks, apostrophes, commas, and other punctuation marks.

What happens to wildlife habitats he asked

_____

Weve got to do something exclaimed Samantha

_____

Yippee Did you see the prizes Mom won at the school raffle

_____

Wasn't the first state fair in our state held on September 11 1799? Ashlyn asked.

_____

_____

Chewing lazily on its cud one sleek cow seemed to enjoy being washed by its owner.

_____

By the end of the day our family had enjoyed the rides the agriculture exhibits and the truck pull and we had avoided the side shows and political booths

_____

_____

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_____

amount read_____

Rational numbers

You have worked with whole numbers, integers, and fractions. All these numbers can be written in fractional form. For example, 5= $\frac{5}{1}$ and -3=$\frac{-6}{2}$. Any number that can be written as a quotient of two integers $\frac{a}{b}$, where b does not equal zero, is called a rational number. All whole numbers, integers, and arithmetic fractions as well as many decimals are rational numbers.

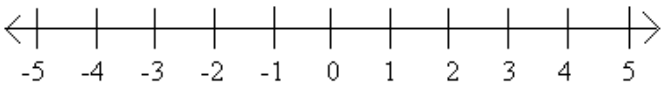
Express each rational number as a quotient of two integers.

-16 can be expressed as -$\frac{16}{1}$ 2 4/7 expressed as $\frac{18}{7}$

Numbers that cannot be written as the quotient of two integers are called irrational numbers. These numbers are nonrepeating, nonterminating decimals. Any number that is either rational or irrational is called a real number.

Every real number can be represented by a point on a number line.

Your turn:



Mark the following points on the number line.

A= -1.5 B -1.35 C= 2 1/3

Express each rational number as a quotient of two integers.

12 3/5 -50 10 5/12

9 x1	2 x2	5 x1	4 x3	0 x0	9 x9	3 x5	8 x5	2 x6	4 x7
5 x6	7 x5	3 x0	8 x8	1 x3	3 x4	5 x9	0 x2	7 x3	4 x 1
2 x3	8 x6	0 x5	6 x1	3 x8	1 x 1	9 x0	2 x8	6 x4	0 x7
7 x7	1 x4	6 x2	4 x5	2 x4	4 x 9	7 x0	1 x2	8 x4	6 x5
3 x2	4 x6	1 x9	5 x7	8 x2	0 x8	4 x2	9 x8	3 x6	5 x5
8 x9	3 x7	9 x7	1 x7	6 x0	0 x3	7 x2	1 x5	7 x8	4 x0
8 x3	5 x2	0 x4	9 x5	6 x7	2 x7	6 x3	5 x4	1 x0	9 x 2
7 x 6	1 x 8	9 x6	4 x 4	5 x3	8 x1	3 x3	4 x8	9 x3	2 x0
8 x0	3 x1	6 x8	0 x9	8 x7	2 x 9	9 x4	0 x1	7 x4	5 x8
0 x6	7 x1	2 x5	6 x9	3 x9	1 x6	5 x0	6 x6	2 x1	7 x9

Choose the correct word

(A lot, Many) athletes say lack of sleep hinders their performance.

Will you (bring, take) the clothes in from the clothesline?

The puppy put (its, it's) paw into the water to play.

(Who's, Whose) taking Lauren to band practice?

If at all possible, you should (lay, lie) down for a few minutes.

The latch on this suitcase seems (loose, lose)

Stephen (can, may) make dinner if I bring home the groceries.

All of Jentzen's clothes were (in, into) one suitcase.

I like vanilla ice cream better (then, than) chocolate.

(Many, Much) of the parents attended the parent-teacher conference.

(Their, They're) main goal was to win the race.

There was (to, too) many people and not enough seats.

Write properly:

3 members of the team made the all American team because of their success this season.

_____

_____

Mike's father in law, who is 55, entered Room 105 of the immigration service on October 12 2003 to apply for citizenship.

_____

_____

Your tryout is scheduled for one fifteen p.m.; it could actually be anytime between 1 and 2 o'clock.

_____

_____

Your final requirement for the day is to read. Choose a book that is at your reading level. There are many book recommendations online or you can check out my blog www.plainandnotsoplain.com. Write the book title and how long you read for today. You should read for a minimum of an hour per day.

_____

amount read_____

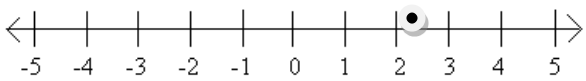
An open sentence is by itself neither true nor false. When you substitute a real number for the variable, however, you can determine whether the result is true or false. Any value of the variable that results in a true sentence is called a solution of the open sentence. Because a solution is a real number, you can show the graph of an open sentence in one variable by graphing all the solutions on a number line.

Graph the equation 8=12+x

First solve the equation. 8=12+x remember to get x by itself by subtracting 12 from each side.

8-12=12+x-12 -4=x

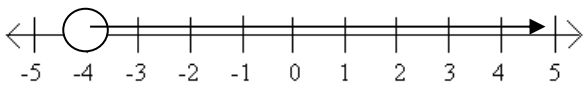
Now graph it.



A mathematical sentence that has an inequality symbol between two numbers or quantities is an inequality. When an inequality is an open sentence, like x> -4.2, there are infinitely many real-number solutions. To graph an inequality like this on a number line, you use an open dot and an arrow.

Graph x >-4.2

Since -4.2 is not a solution of the inequality, you place an open dot at -4.2 on a number line. Then shade in a heavy arrow to the right to graph all numbers greater than -4.2



Two other inequality symbols that are commonly used in mathematics are a≤ b (a is less than or equal to b)

a≥b a is greater than or equal to b.

Your turn:

For each open sentence, choose all the given numbers that are solutions.

z +8=-1 a.7 b.-7 c.-9 d.9

Write each sentence in symbols.

A number n is greater than or equal to -4

Fifteen is greater than a number x

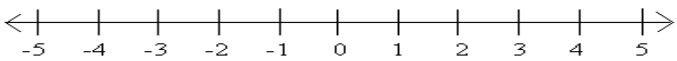
A number p is less than -2.25

Graph each open sentence.

n+4=-5

c-34=-29

g<2



Simplify

$\frac{30x}{42xy}$

Rewrite each phrase using correct capitalization

Scottish Folk Music= Scottish folk music

japanese restaurant=

The Turn Of The Screw=

sunday evening=

the middle ages=

mayflower compact=

Around The World In 80 Days=

late Spring snowfall=

The American civil war=

french-canadian culture=

jamaican music=

independence day=

friday, december 1, 1998=

Rewrite the following using appropriate abbreviations

Salt Lake City, Utah=

2100 Michigan Avenue=

7 feet, 2 inches=

5:15 ante meridiem=

Doctor Aaron Clark=

147 pounds=

Arthur Beckham, Doctor of Dental Science=

Wednesday, December 7=

Missus Amy Maryon=

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_____

amount read_____

week 17

Simplify negative exponents

$x^{-7} = \frac{1}{x^7}$

$3^{-3} = \frac{1}{3^3} = \frac{1}{27}$

$(-2)^{-2} = \frac{1}{(-2)^2} = \frac{1}{4}$

$(5.67)^0 = 1$

We learned how to write very large numbers in scientific notation.
$3.4 \times 10^9 = 3.4 \times 1{,}000{,}000{,}000 = 3{,}400{,}000{,}000$

Write 0.045 in scientific notation.

Move the decimal point to get a number that is at least 1, but less than 10. 4.5 (two places) $\times 10^{-2}$

Write 3.2×10^{-4} in decimal notation

Move the decimal point to the left. (move it four places) 0.00032

Your turn:

Simplify

4^4	6^3
$(-5)^3$	$(-2)^6$
8^{-2}	$(-3)^{-3}$

Write each number in scientific notation:

0.0704

0.00005

Write each number in decimal notation

3.295×10^{-2}

1.7×10^{-5}

Draw me an obtuse, acute, and right angle

Circle the word that is spelled correctly in the list:

a) achieve
b) acieve
c) ackieve
d) acheeve

e) eighty
f) eightee
g) eighti
h) eightiy
i) eightie

j) deeseve
k) deseive
l) deceive
m) decieve

n) quiet
o) queit
p) quait
q) kwiet

r) retrieve
s) reetrieve
t) reatrieve
u) retreive

Write the correct plural of the following words:

lunch	
bus	
baby	
radio	
rodeo	
goose	
wife	
thief	
wolf	
roof	
leaf	
life	
ox	

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_____

amount read_____

REVIEW

Tell whether each number is prime or composite

13 81 77 42

Write the prime factorization of each:

75:

216:

Find the GCF: greatest common factor

48 and 64 15xy and 24 x

Find the LCM – lowest common multiple

6 and 15 8 and 12

Write each fraction in lowest terms

6/12 8/10 48/10

Simplify

$\frac{10ac}{5c}$ $\frac{v^{12}}{v^5}$

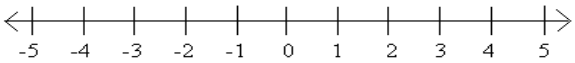
1/5 _____1/6 < > or =

Write each fraction as a decimal or mixed number

1/5 3/10 5/11

Write each decimal as a fraction or mixed number in lowest terms.

0.37 0.255



Draw on the number line each point:

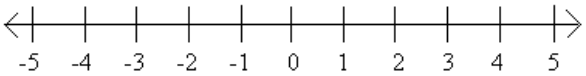
A 2.25 B 0.9/2 C -0.55 D 2 3/5

Write each number in scientific notation

0.0000074

Write each number in decimal notation

2.7×10^{-3}



Graph each open sentence

6=x +9 3w-8=1

Find the misspelled words in each group and write it correctly.

sleigh	niether	quiet	
shutting	slammed	fited	
seed	excede	intercede	
radioes	folios	pillows	
fancyful	sleepiness	wearying	
posing	likelihood	glanceing	
hometown	lifeboat	hommaker	
teeth	mice	gese	
inattentive	misspoken	restablish	

Synonyms are word that have the same meaning or nearly the same.

Write a synonym for the following words

hard	
enthusiasm	
good	
calm	
confusion	
patio	
dry	
long-lasting	
moved	
bad	
choked	
wet	
nicest	
very well	
start	
acute	
desert	
happy	

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_____

amount read_____

Multiplying Fractions

Multiplying fractions is easy. Before you multiply, see if you can cancel out common factors that appear in both the numerator and denominator. Just like reducing a fraction. When you cancel and reduce out before you multiply, you get an answer that is already reduced to lowest terms.

$$\frac{\cancel{3}^{\,1}}{\cancel{14}_{\,2}} \bullet \frac{\cancel{7}}{\cancel{9}_{\,3}} =$$ to solve you can reduce a numerator and a denominator by **7**

Then you can reduce down the 3 and the 9. Now just multiply across 1 x1=1 and 2x3=3 Answer $\frac{1}{3}$

**Remember when you reduce down—you can go only from a numerator and a denominator. Not across from each other.

Another example with algebraic equations:

Simplify $\frac{\cancel{5x}^{\,1}}{3} \bullet \frac{7a}{\cancel{10x}_{\,2}}$ multiply $\frac{7a}{6}$

If you are given negatives in any problem, remember the rules for multiplying or dividing by negatives and positives. Two positives and the answer is positive. One negative and the answer is negative. Two negatives and the answer is positive.

Find $\frac{3}{8} \bullet \frac{6}{11}$ _____

Find $\frac{10}{33} \bullet \frac{11}{25} =$ _____

$\frac{2}{9} \bullet \frac{27}{14} =$ _____

$-\frac{9}{14} \bullet \frac{21}{3} =$ _____

$\frac{75}{33} \bullet \frac{11}{25} =$ _____

$\frac{7}{5} \bullet \frac{15}{3} =$ _____

$-\frac{22}{3} \bullet -\frac{12}{11} =$ _____

$\frac{2}{7} \bullet \frac{3}{4} =$ _____

$\frac{55}{48} \bullet \frac{6}{11} =$ _____

$\frac{7}{77} \bullet \frac{8}{88} =$ _____

Write an antonym in the blank. Antonyms mean the opposite.

glum	
available	
lengthier	
closing	
buoyant	
believe	
heartfelt	
advisable	
polite	
costly	
nearby	
clearly	
frigid	
humble	

Find the misspelled word and write it correctly.

You must reconize the importance of car maintenance.

_____

Dancers must have a good sense of rithum.

_____

He has an appointment for a phisical exam tomorrow.

_____

Even with the advantages of modern medecine, pnumonia is a serious illness.

_____

We accidentaly overturned our canew in the rapids.

_____

That ninty-day garantee is worthless.

_____

The game won't be canseled on a beutiful day like this.

_____

Your final requirement for the day is to read. Choose a book that is at your reading level. There are many book recommendations online or you can check out my blog www.plainandnotsoplain.com. Write the book title and how long you read for today. You should read for a minimum of an hour per day.

_____

amount read_____

Dividing fractions

Remember when we reciprocated the fractions? The reciprocal of ½ is 2/1

When faced with a division problem for fractions, you don't actually divide. You flip the second number and then you multiply just like you did yesterday. Easy.

$\frac{5}{8} \div \frac{3}{8} =$ You actually rewrite it as $\frac{5}{\cancel{8}_{1}} \bullet \frac{\cancel{8}^{1}}{3} =$ Then you reduce down before you multiply. Then multiply across. 5x1=5 and 1x3=3 Answer is $\frac{5}{3}$ But we need to reduce down since it is an improper fraction. 3 goes into 5 how many times? 1 with 2 leftover. $1\frac{2}{3}$

Divide ¼ by 6/7. Rewrite the problem as a multiplication problem.

Find 3/5 ÷ 9/10

Find -8/9÷3/12

Find the following answers and reduce down to lowest terms.

1/3 ÷-4/5

Find the following answers and reduce down to lowest terms

-3/9 ÷ -21/27

Find the following answers and reduce down to lowest terms

5/25 ÷ 81/9

Find the following answers and reduce down to lowest terms

3/15 ÷7/45=

Homographs are words that are spelled alike but have different meanings and sometimes different pronunciations. Beat and beat are homographs. Homophones are words that sound alike but are spelled differently and have different meanings. Male and mail are homophones. Write the definition for the other homograph given.

beat	beat in a game	a song's beat
mail/male	mail a package	male as in a boy
pale/pail		
yak	an animal	
box	a fragile box	
slug	an insect	
blew/blue		
lap	a dog licks water	
hour, our	hour is time	
sight, site		
foul, fowl		
you, ewe		
need, knead		
would, wood		
in, inn		
reed, read		
sore, soar		
feet, feat		
fore, four		
maid, made		
find, fined		
bee, be		

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_____

amount read_____

week 18

Addition of fractions

When you add fractions, one important thing to notice is whether the denominators are the same. If they are then you can just add the top numerators, but if they are not, you will have to make them equivalent.

1/5 + 2/5= 3/5 easy enough. What you are saying is that you have a pie that is cut into 5 pieces and you have one of those pieces. The other pie has 3 pieces of the pie cut into 5 pieces. When you add the pieces together you have 3 out of the 5 pieces of pie!

Add 2/7 +4/7=_____ rewrite them so that you can see them clearly.

Add 5/8 + 7/8 and reduce to lowest terms. Rewrite them so that you see them clearly.

Here is a quick way to add fractions. I will show you the "traditional" method but this is quick.

$\frac{1}{3} + \frac{2}{5}=$

Step 1, cross multiply the two fractions and add the results together to get the numerator of the answer.
1 •5=5 and 2•3=6. Then add 5+6=11 11 is your numerator

Step 2, multiply the two denominators together to get the denominator of the answer.
3 •5= 15

Your answer is$\frac{11}{15}$

Now you try these: Add 7/9 and 8/9 to lowest terms

Find 5/6 +7/10 to lowest terms

Add 3/5 and 14/15

Find the sum of 3/17 and 10/19 in lowest terms—use calculator

Add 11/2 and 19/24

Add letters to make correct spelling of the following:

retr ve	rel ve
v l	influ nce
penc l	neg tive
fant sy	attend nt
w rd	c ling
perc ve	gr ve
n ghbor	conc ve
mel dy	dr ve

Write plural form of each word

notch	
buzz	
box	
baby	
studio	
shelf	
giraffe	
belief	
video	
life	
self	
passer-by	
goose	
antelope	
head of state	
sheep	
strawberry	
potato	

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_____

amount read_____

Now let's do some addition of fractions the traditional way.

We have to get the denominators the same. We have to know what is the lowest number that both denominators will go into.

$\frac{3}{4} + \frac{7}{10}$ typically, you can do the multiples of each number. Multiples of 4 are: 4,8,12,16,20,24 Multiples of 10 are: 10,20,30- oh wait stop they both have 20. So, 20 is your new denominator.

$\frac{3}{4} = \frac{\quad}{20}$ now do the backward Z method to solve for the equivalent fractions. 4 goes into 20, 5 times and 5 x3= 15 so numerator is 15

$\frac{7}{10} = \frac{\quad}{20}$ now do the backward Z method to solve for the equivalent fractions. 10 goes into 20, two times and 2 x7=14, so numerator is 14

$\frac{15}{20} + \frac{14}{20} = \frac{29}{20}$ Reduced down $1\frac{9}{20}$

Now you solve using this method. Add 8/9 and 17/18

add 9/10 and 47/50

Now use whatever method you prefer for addition:

3/5 + 7/8

2/7 + 5/21

1/3 + 2/15

4/5 + 2/3

Underline word that completes the sentences.

Jadyn’s favorite class is (biology, biography.)

(Post, Pre) meridiem means “after noon.”

The United States (exports, imports) grain to Russia.

Autumn, a law student, carries notes in a leather (scolex, portfolio).

The postal worker delivers our (male, mail) in the afternoons.

Did you test the car’s (breaks, brakes)?

Because they cosigned the bank papers for a loan, (one, both) of them will have to pay it back.

Jentzen’s shovel and (pail, pale) lay in the hot sand.

Write a synonym and antonym for each word.

word	synonym	antonym
remember	recall	forget
few		
choose		
delight		
dirty		
disorder		
labor		
assist		
foolish		
common		
boring		
useless		
merry		
inspire		
bold		
joy		
clumsy		
float		

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_____

amount read_____

Addition and subtraction of fractions in algebra

You add the same way as you do in arithmetic.

Add the numerators and write the sum over the denominator.

$\frac{a}{c}+\frac{b}{c}=\frac{a+b}{c}$

To subtract rational numbers with like denominators, subtract numerators and write over the denominator

$\frac{a}{c}-\frac{b}{c}=\frac{a-b}{c}$.

Your turn:

$$\frac{6}{x}+\frac{5}{x}=$$

$$\frac{11}{3m}-\frac{5}{3m}=$$

$$-8\frac{1}{10}-2\frac{3}{10}=$$

$$\frac{3c}{7}+\frac{5c}{7}+\frac{6c}{7}=$$

Evan finished his math assignment in ¾ hour. Collin finished the same assignment in 1 ¼ hour. How much longer did it take Collin to do the assignment than Evan?

Lauren spent 1 3/8 hour cleaning the house, 7/8 hour doing the laundry, and 1 5/8 preparing food. How many hours did Lauren spend doing all the work?

From a 33 7/8-inch-long board, Greg cut a piece of wood that was 10 5/8 inch long. The saw blade shaved 1/8 inch off the board. How long was the remaining piece?

Write 0.00000047 in scientific notation

Simplify 14m/5-9m/5

Circle which word is spelled correctly out of the two.

freinds	friends
delayed	delaid
shoping	shopping
fishook	fishhook
couragous	courageous
nosei	nosy
becomming	becoming
halves	halfs
photoes	photos
deer	deers
nutriants	nutrients
separate	seperate
unforgettable	unforgetable
totattly	totally
sister-in-laws *referring to one	sisters-in-law
chiefs of staff	chieves of staff
shoping	shopping
responsability	responsibility
required	recuired
vistiting	visiting
pleese	please

Your final requirement for the day is to read. Choose a book that is at your reading level. There are many book recommendations online or you can check out my blog www.plainandnotsoplain.com. Write the book title and how long you read for today. You should read for a minimum of an hour per day.

_____

amount read_____

Solve however you would like:

1/8 + 3/16

2/7 + 1/28

-4/9 + -3/45

2/3-7/17

2/3 • 9/12

-7/8• -24/21

-11/12• 144/121

13/24• 3/5

Writing

Set your timer and free write for ten minutes about a recent event that happened to you this past summer. Freewriting is making lists about what your idea or topic is. So focus on writing a bunch of things that you did –no complete sentences just a bunch of ideas.

Now from the previous page, choose a specific topic to write about.

_____

_____

Chose at least two purposes for the topic you chose to write about. Determine an audience for each purpose.

_____

_____

_____

_____

Write one or two questions that you might research before writing about each topic below.

Topic: Your community's activities for teenagers.

_____

_____

Topic: Air pollution

_____

_____

Topic: Preparing healthful meals

_____

_____

Your final requirement for the day is to read. Choose a book that is at your reading level. There are many book recommendations online or you can check out my blog www.plainandnotsoplain.com. Write the book title and how long you read for today. You should read for a minimum of an hour per day.

_____

week 19

Subtraction of Fractions

Just like we learned with addition, subtracting fractions that have the same denominator (common denominator) is very simple: Just subtract the second numerator from the first and keep the denominator the same. Then we reduce down to lowest terms.

$\frac{2}{3} - \frac{1}{3} =$ This one is easy, the denominators are the same so just subtract the top 2-1=1

Answer is $\frac{1}{3}$

$\frac{3}{10} - \frac{1}{10} = \frac{2}{10}$ sometimes when you subtract, you need to reduce to lowest terms. Say, what can go into both the 2 and 10 evenly? 2, so divide both the numerator and the denominator by 2 and you get $\frac{1}{5}$

If you have different denominators, we need to make them the same by either doing this "quick method" or the equivalent fractions. Let's do the quick method like we did for addition.

$\frac{6}{7} - \frac{2}{5}$ = Do the cross multiply like we did for addition (6•5) – (2•7)= 30-14=16

multiply the two denominators together to get the denominator of the answer 7•5=35

Your answer is $\frac{16}{35}$

Now you try, $\frac{9}{10} - \frac{5}{6}$ = in lowest terms

Subtract 7/10- 3/10=

Solve 4/5-1/3=

Solve 5/20- 1/4

Solve 1/3- 1/8=

Let's learn how to identify purposes for topics.

Topic: How an eighth-grader can earn money during the summer.

Purpose 1: to inform an 8th grader of ways to earn money

Purpose 2: to persuade 8th graders to earn their own money

Your turn:

Topic: An abandoned house in your neighborhood.

Purpose1: _____

Purpose 2: _____

Topic: Resolving fights with friends.

Purpose 1: _____

Purpose 2: _____

Topic: Your household chores

Purpose 1: _____

Purpose 2: _____

Topic: Fixing something that is broken

Purpose 1: _____

Purpose 2: _____

Identify one audience and one purpose for each topic.

Topic: An increase in allowance.

Purpose: To persuade your parents to raise your allowance

Audience: Your parents.

Your turn:

Topic: A movie you saw recently.

Purpose:_____

Audience: _____

Topic: Your commitment to physical fitness

Purpose:_____

Audience: _____

Topic: Explaining the steps to your favorite dance.

Purpose:_____

Audience: _____

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_____

amount read_____

Subtraction of fractions—finding common denominators

Using the cross method is easy and quick for most everything, but let's teach you finding the common denominators so when you have a larger denominator you don't have to reduce so much.

Let's subtract this problem $\frac{17}{20}$ - $\frac{31}{80}$= you can cross multiply, but you will be dealing with bigger numbers. It is easier to look at the denominators to see if we can get a common multiple for both. 20's multiples are: 20,40,60,80, and 80's multiples are 80, 160, oh wait they both have 80 so let's use that.

$\frac{17}{20} = \frac{\quad}{80}$ do that backwards z method for finding equivalent fractions 20 goes into 80, 4 times. 4 x 17= 68 , your new numerator is 68.

$\frac{68}{80} - \frac{31}{80}$ you don't need to change the second number because the denominator is already 80.

Then subtract to get $\frac{37}{80}$

Practice 8/15 – 1/3

5/7 – 7/10

Solve these the same way you were taught today, so that you get the concept. Tomorrow you can choose to do them the easy way.

3/5- 1/3

5/8-1/2

5/7-5/8

½-1/4

1/3-1/6

After the prewriting stage, begin drafting or writing your piece in paragraph form. From the topic and purpose, you can create the theme, the point the piece will try to make. State the theme in a thesis statement in the first paragraph. Each paragraph usually has a topic sentence or a statement of the main idea and several supporting sentences that can relate details about the topic. While writing consider your chosen audience. The audience as well as the theme and purpose determine the style or voice of your writing. The style or voice gives your writing its "feel."

Create five thesis statements. For each thesis use one topic and one purpose from the list below. You may repeat a topic to use with a different purpose.

Purposes	Topics			
to describe	horseback riding	painting	television	
to inform	Michigan	North Carolina	the mountains	
to narrate	popular music	make up	swimming	
to persuade	coffee	Star Wars	the internet	
to instruct	baseball	pollution		
to create a mood				
to entertain				

Purpose: to describe Topic: moon

To the naked eye, the moon looks like a large wedge of holey cheese.

Your turn:

1_____

_____

2_____

_____

3_____

_____

4_____

_____

5_____

_____

REVIEW

Can you list all of the prepositions that we memorized? List them, I will start you out:

about

above

Remember the linking verbs? is, ...

Your final requirement for the day is to read. Choose a book that is at your reading level. There are many book recommendations online or you can check out my blog www.plainandnotsoplain.com. Write the book title and how long you read for today. You should read for a minimum of an hour per day.

_____

amount read_____

Subtraction of fractions

Do these the easy and quick way if you would like to, otherwise do the traditional way.

½-1/2

5/7-4/9

2/3-1/5

5/7-5/8

Simplify these if needed: -you can use a calculator is your teacher allows you to.

8/15-1/3

9/10-10/17

5/7-12/19

3/7-2/9

20/23-5/7

Write a topic sentence and two supporting sentences for the following topics and purposes.

Topic: Computers Purpose: to instruct

_____

_____

_____

_____

Topic: your state Purpose: to persuade

_____

_____

_____

_____

Topic: cars Purpose: to describe

_____

_____

_____

_____

Topic: the night sky Purpose: to describe

_____

_____

_____

_____

Topic: a friend Purpose: to narrate

_____

_____

_____

_____

Topic : etiquette Purpose: to inform

_____

_____

_____

_____

Your final requirement for the day is to read. Choose a book that is at your reading level. There are many book recommendations online or you can check out my blog www.plainandnotsoplain.com. Write the book title and how long you read for today. You should read for a minimum of an hour per day.

_____

amount read_____

Mixed numbers

Remember what a mixed fraction is? A whole number plus a fraction 2 ½ is an example How you multiply and divide a mixed fraction is to convert the mixed fraction to an improper fraction first and then continue onward either multiply or dividing.

2 ½ converted is 2•2=4 +1=5 answer is $\frac{5}{2}$

Multiply the following after you convert them: $1\frac{3}{5} \bullet 2\frac{1}{3} =$

Divide the following after you convert them $3\frac{2}{3} \div 1\frac{4}{7} =$

You practice

2 1/3 • 3 ¼

What is 3 ½ ÷ 1 1/7

Multiply 2 1/3 by 1 3/7

Find 2 2/5 • 1 5/6

Describe a voice or style that would be appropriate for the following audiences.

Type of writing and audience: letter to a U.S. senator

Voice or style: formal and respectful

Your turn:

Type of writing and audience: a note to a friend

Voice or style:

Type of writing and audience: a paper for the American Science Foundation

Voice or style:

Type of writing and audience: an apology to a teacher

Voice or style:

Type of writing and audience: editorial

Voice or style:

Write a paragraph about a specific change you would like to see in your community. Your audience is made up of political leaders from your community.

_____

_____

_____

_____

_____

List the 46 prepositions we memorized:

about

above

Remember the linking verbs? is, ...

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_____

amount read_____

week 20

Simplify $\frac{10x}{24} + \frac{9x}{24} = \frac{19x}{24}$

Find each answer -4.25+(-3.1)= -7.35 **remember the signs are the same so we just add them together.

-1.48-(-3.8)= change the sign and then add -1.48+3.8=2.32

Your turn:

3x-$\frac{x}{3}$=

5.4+0.19+(-3.5)=

-3 ½ + (-4 $\frac{1}{6}$)+$\frac{2}{3}$=

-10+2.66=

Rewrite in column form to solve easier if necessary.

-9.7-2.8=

4/5- (-3/4)

3b+ 5b/4

0.15+(-4.8)+(-6.35)

-15.4-(-20)

circle the word that names the whole group

a) Earth
b) Mercury
c) Pluto
d) solar system
e) orbits

f) candles
g) games
h) ice cream
i) cake
j) birthday

k) drums
l) band
m) guitar
n) keyboard
o) microphone

p) summer
q) fall
r) spring
s) season
t) winter

u) elm
v) hickory
w) chestnut
x) trees
y) maple

Review

Circle the common nouns, underline the proper nouns, and box the abstract nouns.

Missouri	laziness		pride
glass	jewelry	Peru	
glue	dessert	canoe	
pennies	fear		loneliness
integrity	toast		juice
drawing	evil		horizon

Write me a declarative sentence.

Write an exclamatory sentence.

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_____

amount read_____

Subtraction mixed numbers

Subtraction of fractions is easy if the denominators are the same. When they are different, your first step is to always change them to a common denominator. You can do the quick way or the "find the common multiple way."

When the two have the same denominator, you can subtract. Here is what you do when the fractional part of the first number is GREATER than the fractional part of the second number.

$8\frac{4}{5}$

$-6\frac{3}{5}$

_____ just subtract down

$2\ \frac{1}{5}$

That is easy enough, right? Now let's try this one:

$9\frac{1}{6}$

$-3\frac{5}{6}$

_____ you can't subtract 1-5, so you need to borrow (just like in regular subtraction)

you borrow one whole from the 9 and make it 8. Since you borrowed a "whole part" your fraction is divided into 6 pieces. You borrowed 6 of those pieces. So, you add 1 +6

8

$\cancel{9}\frac{1+6}{6}=8\frac{7}{6}$

$-3\frac{5}{6}$

_____

$5\ \frac{2}{6}$ reduced down to make $5\ \frac{1}{3}$

Now you try subtract 19 4/11 - 6 3/8

Subtract 5 7/9 - 2 4/9

Find 9 1/8 - 7 5/8

Figure out 16 2/5 - 8 4/9

Do some internet research and choose one of the following topics today. Write a paragraph, one topic sentence, three to four supporting sentences and one final sentence to tie it all in.

How bees make honey

Select one of the monkey families and write about their way of life.

The busy ant family.

The migration of the bird.

Why you like a certain dog.

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

Underline the antecedents and pronouns that properly agree in gender.

Ben/it	Mr. Smith/they
knives/ they	Susan/she
rice/they	man/him

Underline the antecedents/pronouns that agree in number

mice/they	band/they	lion/it
fish/it	moose/it	some/they
group/we	some/he or she	moose/they

Underline the action verbs.

serve	did	blew	cook
give	are	spoke	chased
fry	rest	could	look

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_____

amount read_____

more subtraction practice

4- 2 ¾

2 2/3 - 1 12/13

38/7 - 12/5

32/13- 9/4

7 - 6 ½

5 3/5 - 5 1/7

12 2/3 - 1

2 -1 11/12

Rewrite the following sentences and add apostrophes where necessary.

Sarahs Aunt Mae is visiting her.

_____

The childs toys were scattered on the floor.

_____

Many hunters knives were very sharp.

_____

Where have you put Sarahs gloves.

_____

The girls chorus includes several grades.

_____

The ladies friends are having lunch together.

_____

Underline the linking verbs.

proved	became	felt	
took	appear	tastes	
is	was		grew
sat	could		nodded
are	am		dust

Circle the correct form of lay/lie in each sentence.

Who (laid,lain) the TV remote on the floor?

We have (laid, lain) out our clothing for church.

The old cabin(lies, lays) across the river.

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_____

amount read_____

Find each answer—mixed review

-5/7+6/7

-12 1/3 – 4 2/3

16a/21- a/21

-6.7+2.9

5b+ 7b/4

-4 11/18 - (-1 ½)

9 x1	2 x2	5 x1	4 x3	0 x0	9 x9	3 x5	8 x5	2 x6	4 x7
5 x6	7 x5	3 x0	8 x8	1 x3	3 x4	5 x9	0 x2	7 x3	4 x 1
2 x3	8 x6	0 x5	6 x1	3 x8	1 x 1	9 x0	2 x8	6 x4	0 x7
7 x7	1 x4	6 x2	4 x5	2 x4	4 x 9	7 x0	1 x2	8 x4	6 x5
3 x2	4 x6	1 x9	5 x7	8 x2	0 x8	4 x2	9 x8	3 x6	5 x5
8 x9	3 x7	9 x7	1 x7	6 x0	0 x3	7 x2	1 x5	7 x8	4 x0
8 x3	5 x2	0 x4	9 x5	6 x7	2 x7	6 x3	5 x4	1 x0	9 x 2
7 x 6	1 x 8	9 x6	4 x 4	5 x3	8 x1	3 x3	4 x8	9 x3	2 x0
8 x0	3 x1	6 x8	0 x9	8 x7	2 x 9	9 x4	0 x1	7 x4	5 x8
0 x6	7 x1	2 x5	6 x9	3 x9	1 x6	5 x0	6 x6	2 x1	7 x9

Write two original sentences for each preposition in the list.

among between in into

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

Circle the correct form of sit/set in each sentence.

The waitress(set,sat) the ketchup bottles on the table.

We will (sit, set) beside the bleachers in our own chairs.

Dad (set, sat) down on the bench to watch Stephen and Madelyn play in the playground.

Circle the common adjectives in these sentences.

My next-door neighbor's dog darted across the front yard chasing the black cat.

The sweet smell of roses filled the air when the bush bloomed.

The worship leader, Mr James, has a very melodious voice.

Write the correct articles in front of each noun.

_____umbrella	____honest person	____insult
_____historian	____apple	____shopkeeper
_____apple pie	____needle and thread	____chair

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_____

amount read_____

week 21

Solving equations involving rational numbers.

7=-3x+5

7-5=-3x+5-5

$\frac{2=-3x}{-3 \quad -3}$

x= $-\frac{2}{3}$

****

2m+5.1= -1.3

2m+5.1-5.1=-1.3-5.1

$\frac{2m=-6.4}{2 \qquad 2}$

m= -3.2

****

z- ½ = ¾

z- ½ + ½ = ¾ + ½

z= ¾ + ½

z= ¾ + $\frac{2}{4}$ = z= 5/4 = 1 ¼

Your turn:

6n +3= - 1

9+4g=12

s- 1/8= - ¾

19.8= 7.17+3x

3 5/8+ r = 7/8

2a- 1.9= -4.1

m-8 = 3/5

Write two original sentences for each preposition in the list.

at of off to

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

Circle the correct form of the word.

The weather today was(worse, bad) than yesterday's.

The (longer, longest) the wait, the (more, most) it irritates Dad.

It was the (most interesting, interestinger) conversation I've had with her yet.

Matthew (more frequently, most frequently) does his homework after class.

Our team played the (bestest, best) of all the teams at the tournament.

This presentation is going (slowly, more slowly) than I thought it would.

Underline the prepositional phrases in the sentences below.

While the horse ate in the stable, the cow and the calf grazed lazily in the field.

Jentzen quickly drank from his thermos before the second half of the game started.

Our fish, Bubbles , always seems lonely in his small fish tank.

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_____

amount read_____

Using reciprocals to solve equations

Solve 2/3 x= -5

2/3 x (3/2)= 3/2 (-5) 1•x= 3/2•(-5/1)

x= -15/2= - 7 ½

****

4= -5/6b +1

4-1= -5/6b+1-1

3= -5/6 b

(-6/5)(3/1)= (-6/5)(-5/6b)

-18/5=b -3 3/5

Your turn:

Jadyn carried home a number of one-half pound packages of sliced deli meats and a 10-lb bag of potatoes. Her total load was 13 ½ lb. How many packages of deli meats did she carry?

4/11 j=16

¾ x= -8

$\frac{1}{2}v - 3 = 8$

$-1=\frac{7}{12}z+6$

$-18= -\frac{5}{11}x-8$

$-\frac{5}{6}k=9$

$-\frac{8}{9}c=12$

$3y= \frac{3}{8}$

Brooklyn swam 20 ft farther than Autumn. Autumn swam 25 yards. How many yards did Brooklyn swim?

Choose the correct word.

The rocks fell (off of, off) the cliff.

They fell (in, into) the river below the cliff.

Rabbits are everywhere (in, into) this field.

We are staying (at, to) the Arbor Inn.

Each day we hike (to, at) a different place.

Once I fell (in, into) a hole.

The hole was (in, into) a muddy place.

Do not step (off of, off) the board walks around the geysers.

I will jump (off, off of) the diving board.

The rocks from the high cliff fell (in, into) the river.

Write an exclamatory sentence using the word Wow.

_____

Write an imperative sentence using the word “get.”

_____

Put the following lists in ABC order. Place a number after them.

gentle
five
favorite
fifth
few

nice
many
pointed
quiet
new
quick

list
huge
little
loud
kind

these
tall
ten
tallest
taller
that

snowcapped
sixth
red
several
some

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_____

amount read_____

Review

5/8 •3/4

5/6÷2/3

11 5/6 + 2 5/6

2 1/6- 1/3

-6(3/4)

(-5 ¼)(- 2 2/3)

-3 + (-1 3/5) + 9/10

-48÷(-1.2)

12 + (-8.1)

(4.8)(-0.5)

6a/11÷4a

Greg spends a total of 2 1/3 hours of commuting to work every day. How many hours does he spend commuting to work in 5 days?

A gym costs $15 per hour to rent. What is the cost to rent the room for 3 ½ hours?

The total weight of 12 identical packages is 15 lbs. What is the weight of each package?

When Collin reached the age of 30 he was 6ft 5 inches tall. At birth he was 21 inch long. How many inches did Collin grow in 30 years?

Solve 5x+9=13

3n-3.7= -4.3

p+ ¾ = 2 1/3

Underline the simple subjects and box the simple predicates.

Many people visit the Statue of Liberty every year.

The phone rang six times before I could answer it.

What is the sum of the numbers twelve and five?

Identify whether the boldfaced word s a direct or indirect object in these sentences by writing DO or IO above it.

I would like peach **ice cream** with my peach cobbler, please.

The postman delivered **Aunt Susan** a **package** today.

The class sent the **soldiers** several **care packages.**

Choose the correct word

They (studies, study) together every Friday night.

My neighbor's dog (bark, barks) a lot at night.

Spaghetti and meatballs (is, are) my favorite dinner.

Each of the students (is, are) receiving an award.

None of the teachers (give, gives) homework over the holidays.

Write a sentence using the following words: bravery thunder

_____

_____

strength little

_____

_____

many sorrow

_____

_____

bitterness quick

_____

_____

gentleness those

_____

_____

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_____

amount read_____

Ratio and rate

A ratio is a comparison of two numbers by division. The ratio of two numbers a and b can be written in three ways.

a to b a:b $\frac{a}{b}$

Write the ratio as a fraction in lowest terms : 21 days to 6 weeks.

Change 21 days to weeks= 3 weeks

$\frac{3\ weeks}{6\ weeks}$= ½

A ratio that compares two unlike quantities is called a rate. A unit rate is a rate for one unit of a given quantity. An example of unit rate is miles per hour, which indicates the number of miles for one hour.

Write the unit rate.

150 mi in 3 hours

$\frac{miles}{hours}=\frac{150}{3}=\frac{50}{1}$

The rate is 50 mi in 1 hr or 50mph

Your turn:

Write each ratio as a fraction in lowest terms

14/7 36/15

$2 to $3.00 4yd:4ft

18 to 24 2:32

Write the unit rate.

300 mi in 6 hr

205 words in 5 min

33 m in 15 s

$42 for 5 hr

Add punctuation where necessary, rewrite the sentences.

Campers could play tennis soccer basketball or baseball

_____

_____

What kind of day did I have The hamster got loose in the house the washing machine overflowed and Sam fell and skinned both knees Wow This project is terrific

_____

_____

_____

_____

_____

_____

You should close the windows and lock them before going to bed suggested Sam

_____

_____

Autumn blurted Hey That's my bowl of chips Get your own

_____

_____

Why interrupted Mrs Maryon do you always insist on sitting in the front seat

_____

_____

Give me an example of the following

noun		
action verb		
adjective		
adverb		
common noun		
conjunction		
proper noun		
plural noun		
possessive noun		
preposition		
prepositional phrase		
pronoun		
singular noun		
plural noun		

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_____

amount read_____

week 22

Proportions

A proportion is a statement that two ratios are equal.

You write $\frac{3}{4} = \frac{9}{12}$ or 3:4 = 9:12

You read 3 is to 4 as 9 is to 12

The numbers 3,4,9,12 are the terms of the proportion. If a statement is a true proportion, the cross products of the terms are equal.

Multiply across 3•12=4•9 you get 36=36

In algebra

$\frac{a}{b} = \frac{c}{d}$ ad=bc

Solve each proportion

$\frac{n}{6} = \frac{3}{2}$ cross multiply and you get 2n=18. Then divide by 2 on each side and you get n=9

Your turn:

Write five is to six as ten is to twelve in symbols

Write three is to one as fifteen is to five in symbols

Tell whether each proportion is true or false

$$\frac{5}{8} = \frac{15}{24}$$

$$\frac{12}{4} = \frac{4}{12}$$

Solve each proportion

$$\frac{3}{2} = \frac{9}{n}$$

$$\frac{2.5}{5} = \frac{c}{8}$$

Is 4/9 = 36/81 a true proportion?

Solve 14/2a=6/9

3w/5=24/10

$\frac{3}{2} = \frac{9}{n+2}$ solve using the distributive property

Homonyms are words that sound the same but have different meanings and are spelled differently.

Write me one sentence for each homonym. If you are unsure, consult a dictionary for their meanings.

ad/add

_____

_____

allowed/aloud

_____

_____

aunt/ant

_____

_____

ate/eight

_____

_____

bear/bare

_____

_____

blue/blew

_____

_____

break/brake

_____

_____

Choose the correct word.

(Can, May) I have some friends over tonight?

We would have enjoyed the hike more (except, accept) Sam got a blister on his foot.

Bobbie(laid, lie) his coat and hat on the chair when he came in.

Mary (has did, has done) a great job keeping up with his chores this summer.

How do you expect me to (accept, except) this answer without any explanation?

Mom carefully (hanged, hung) the family portrait over the fireplace.

At the park on a nice day, you can find people (sitting, setting) or (laying, lying) on a blanket relaxing.

Johnny, you (can, may) have a second piece of pie if you like.

Poor Grandpa (has laid, has lain) in bed with a headache most of the afternoon.

Without hesitation, the king sentenced the thief to be (hung, hanged) at the gallows.

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_____

amount read_____

You can solve many problems that involve equal ratios or equal rates by using proportions.

The local paper charges $7.20 for 3 weeks of home newspaper delivery. At this rate, what is the cost of 8 weeks of home delivery?

Let c= the cost of 8 weeks of home delivery. Write a proportion using the ratio of the number of weeks to the cost of home delivery. Then solve the proportion using cross products.

$$\frac{3}{7.2} = \frac{8}{c} \quad \frac{number\ of\ weeks}{cost\ of\ home\ delivery}$$

3c= (7.2)(8)

3 c= 57.6, then divide both sides by 3

c=19.2

Your turn:

Amy sells balloons. She charges $9 for 12 balloons. At this rate, what will Amy charge for 50 balloons?

Madelyn spent 3 hours addressing 50 wedding invitations. At this rate, how long will it take her to address 125 wedding invitations?

Amy paid $12.72 for 8 cans of frozen lemonade to make for the party. Greg bought 10 cans of the same brand of lemonade. How much did Greg pay for the juice?

9 x1	2 x2	5 x1	4 x3	0 x0	9 x9	3 x5	8 x5	2 x6	4 x7
5 x6	7 x5	3 x0	8 x8	1 x3	3 x4	5 x9	0 x2	7 x3	4 x 1
2 x3	8 x6	0 x5	6 x1	3 x8	1 x 1	9 x0	2 x8	6 x4	0 x7
7 x7	1 x4	6 x2	4 x5	2 x4	4 x 9	7 x0	1 x2	8 x4	6 x5
3 x2	4 x6	1 x9	5 x7	8 x2	0 x8	4 x2	9 x8	3 x6	5 x5
8 x9	3 x7	9 x7	1 x7	6 x0	0 x3	7 x2	1 x5	7 x8	4 x0
8 x3	5 x2	0 x4	9 x5	6 x7	2 x7	6 x3	5 x4	1 x0	9 x 2
7 x 6	1 x 8	9 x6	4 x 4	5 x3	8 x1	3 x3	4 x8	9 x3	2 x0
8 x0	3 x1	6 x8	0 x9	8 x7	2 x 9	9 x4	0 x1	7 x4	5 x8
0 x6	7 x1	2 x5	6 x9	3 x9	1 x6	5 x0	6 x6	2 x1	7 x9

Write me one sentence for each homonym. If you are unsure, consult a dictionary for their meanings.

by/buy

_____

_____

colonel/kernel

_____

_____

deer/dear

_____

_____

flour/flower

_____

_____

principal/principle

_____

_____

right/write

_____

_____

meet/meat

_____

_____

Write whether each sentence is punctuated correctly. Write yes or no at the end.

It's 2 A.M.! You should be asleep!

How nice that Kayleigh offered to help clean up afterward?

What is the capital of Florida?

I asked Finley to meet me at 3 P.M. to study.

Put your glasses away in a safe place.

Sh!!!Be careful not to wake the baby?

We are supposed to head home around 9:00 P.M.

Nonsense! I would never say that?

How sad Charlotte must feel?

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_____

amount read_____

Percentages

Percents are a way of describing parts of the whole. The word percent means per hundred. But in practice, when I say 50 percent of my socks are black, that means that out of the 100 socks I own, 50 are black. Or if you own 10 pants and 5 of them are jeans, then 50% of them are jeans.

To change a whole number percent to a decimal, simply replace the percent sign with a decimal point and then move this decimal point over two places to the left. Then you can drop any trailing zeros.

75%= 0.75 50%= 0.50 34%= 0.34

Sometimes a percent already has a decimal point. Just drop the percent sign and move the decimal point two places to the left. 12.5%= 0.125

Your turn:

Change 90% to a decimal _____

Change 34.6% to a decimal_____

Find the decimal equivalent of 99.44%_____

What is 243.1% expressed as a decimal_____

Convert 2.5% to a decimal_____

Convert 7% to a decimal_____

Convert 3% to a decimal_____

Convert 39% to a decimal_____

Convert 99.9% to a decimal_____

Write me one sentence for each homonym. If you are unsure, consult a dictionary for their meanings.

he'll/heal/heel

_____

_____

_____

I'll/aisle/isle

_____

_____

_____

rain/rein/reign

_____

_____

_____

flew/flu/flue

_____

_____

_____

cent/scent/sent

_____

_____

_____

Add commas where necessary in the following items.

We ate chips salsa pretzels pizza and popcorn during the movie.

“I really hope David makes it to practice” said Frank.

Well what is your opinion about this?

Besides skateboarding and surfing Jim also plays baseball and soccer.

The large scary bug crawled quickly across the kitchen floor.

I like to hike in the mountains swim at the lake and paint in my room.

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_____

amount read_____

Changing decimal to a percent

Change 0.6 to a percent---Move the decimal to the right two places 60%

Convert 0.57 to a percent

What is 0.3 expressed as a percent

Change 0.015 to a percent

Express 2.222 as a percent

Express 35% as a decimal_____

Express 22.2% as a decimal_____

Express 12% as a decimal_____

Express 9.8% as a decimal_____

Express 89% as a decimal_____

Write me one sentence for each homonym. If you are unsure, consult a dictionary for their meanings.

sail/sale

_____

_____

threw/through

_____

_____

would/wood

_____

_____

weather/whether

_____

_____

whose/who's

_____

_____

scene/seen

_____

_____

Write commas in the correct places.

September 22 2000

Monday June 15

May 4 1998

Tuxedo North Carolina

Dear Mom

Sincerely

Write your mailing address as seen on an envelope addressed to you

Your final requirement for the day is to read. Choose a book that is at your reading level. There are many book recommendations online or you can check out my blog www.plainandnotsoplain.com. Write the book title and how long you read for today. You should read for a minimum of an hour per day.

_____

amount read_____

week 23

Percent problems

Percent problems give you two pieces of information and ask you to find the third piece.
The most common type of percent problem is this

50% of 6 is?

The best way to remember is that “of” means multiply. “is” means equal.

50% x 6=____. Use a calculator to solve this. If your calculator does not have the % sign, convert it to a decimal by moving it two places to the left and type in .50 x 6=3

You solve: What is 20% of 350?_____

17% of 125 is ?_____

7% of 200 is ?_____

23% of 100 is?_____

Now some problems will say what percent of 4 is 1?
*remember of means x and is means =, so if you rewrite it you have

_____x4=1

Since division is the opposite of multiplication, you take 1 ÷4 and that equals .25 which you convert to 25%

What percent of 5 is 2?_____

What percent of 20 is 5?_____

Some may say, what is 10% of what number?= 40
let's rewrite it, putting in the multiply and equals sign

10% x _____=40

since division is the opposite of multiplication, you take 40÷ (.10) and it gives you 400

**Just remember what of means and is means and you will be all set!

What is 30% of what number is 10?_____

35% of what number is 28?_____

Homographs are words that are spelled exactly the same but have completely different meanings. Write two sentences with the word used in a different way.

address

_____

_____

bow

_____

_____

close

_____

_____

desert

_____

_____

does

_____

_____

house

_____

_____

live

_____

_____

Add quotation marks and correct punctuation where needed.

Wow Those are terrific pictures exclaimed Susan

This summer promises continued Roy to be a very memorable one for sure

Would you care for another slice of pizza asked Mom

Why did you say I'm better than she is

The car sighed Dad needs to be taken to the mechanic

Nora said she wasn't feeling well yesterday

Here is the hammer you asked for said Collin

Excellent work Stephen praised Mom

Why does Brooklyn say I think I know but I'm not sure

Which one of you said I can't swim

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_____

amount read_____

More practice

75% of 20 is_____

What percent of 50 is 35?_____

79% of 11 is?_____

What is 37% of 600_____

What is 26% of 150?_____

What is 13% of 100?_____

81.3 is what percent of 271?_____

387.2 is what percent of 484?_____

608.8 is 80% of ?_____

282.6 is 90% of ?_____

740.35 is 85% of ?_____

223.5 is what percent of 745?_____

35.5 of 355 is what percent?_____

Homographs are words that are spelled exactly the same but have completely different meanings. Write two sentences with the word used in a different way.

present

_____

_____

produce

_____

_____

read

_____

_____

record

_____

_____

tear

_____

_____

use

_____

_____

well

_____

_____

Write the contractions for the following words:

is not

are not

was not

were not

might not

did not

should not

would not

we will

we are

we have

we would

it is

it will

I am

I will

I have

I would

can not

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_____

Percent	decimal	fraction
1%	0.01	1/100
5%		
10%		
12 ½%	0.125	1/8
20%		
25%		
33 1/3%		
50%		
75%		
80%		
90%		
99%		
100%	1	
125%	1.25	5/4
150%		
200%		

More practice

Samuel wants to buy a TV. The regular price is $280 but it is on sale today for 30% off. How much will he save if he buys it today?

What number is 64% of 75?

What number is 40% of $236?

50% of 528 is what number?

8% of $24 is what number?

10% of $24 is?

Write sentence for each homograph

wind

_____

_____

wound

_____

_____

Write an 8-10 line paragraph describing today. (Descriptive writing)

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

Fix each sentence by rewriting it without any mistakes.

We won't be abel to make it to detroit by 4 oclock?

_____

In the event of an emergincy, please exit the bilding?

_____

In 1976, he attend ed the university of chicago.

_____

I use A special racket when im in a tournamint.

_____

I need knew glasses.

_____

Can you lend me sum $ to by Kara a christmas present!

_____

Letus get 2 gether tomorrow for lunch.

_____

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_____

amount read_____

Percent	decimal	fraction
1%	0.01	1/100
5%		
10%		
12 ½%	0.125	1/8
20%		
25%		
33 1/3%		
50%		
75%		
80%		
90%		
99%		
100%	1	
125%	1.25	5/4
150%		
200%		

Mixed review

write 13/20 as a percent

write 130% as a decimal

Write 0.45 as a percent

Write 28% as a fraction

Find each answer:

65% of 29 is what number

What percent of 99 is 16.5

57 is 15% of what number

What number is 4 ½ % of 150

Prewrite for about 10 minutes about a place you have visited. Then construct an organized outline from your notes.

Now make an outline.

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_____

amount read_____

week 24

Review

Write each ratio as a fraction in lowest terms.

50:75 $1 to $.40

Write the unit rate

80 mi on 2 gal $51 for 6 hours

Solve each proportion

$\frac{20}{a} = \frac{5}{6}$

$\frac{1.8}{6} = \frac{m}{4}$

Tammy can grade 20 exams in 3 hours. At this rate, how long will it take her to grade 72 exams?

Write each fraction or decimal as a percent

0.829

2/5

0.06

Write each percent as a fraction in lowest terms and as a decimal

64%

90%

6 ½ %

Find each answer:

What number is 18% of 70?

What percent of 128 is 38.4?

104 is what percent of 78?

Find each answer using a proportion

700 is 35% of what number

What percent of 75 is 50?

Rewrite each sentence and add details to make each sentence more interesting.

The present was given to me by my dad.

_____

_____

Collin and his dad go on vacation together.

_____

Evan works on computers.

_____

_____

Brooklyn is employed at a coffee house.

_____

_____

The house lights were turned on by Ashlyn.

_____

_____

The new year was celebrated by all of us.

_____

_____

Charles plays guitar.

_____

_____

Combine each set of sentences to make one sentence that is more effective.

Newspapers are filled with information
Most newspapers cost less than a dollar.
I like reading newspapers.

_____

_____

I turn on the radio every day.
There are many radio stations.
I like to listen to Christian music.

_____

_____

My friend's name is Matthew.
We're going to the concert.
We were able to get front-row seats.

_____

_____

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_____

amount read_____

Perimeter

Perimeter of a polygon is the sum of the lengths of all its sides.

The length of one side of a regular pentagon is 4.9cm. Find the perimeter.

We know that there are 5 sides to a pentagon. If all sides are 4.9, then 5 x 4.9=24.5 cm

Your turn:

Find the perimeter of the following:

a regular decagon with one side measures 2.8cm

a rhombus with one side that measures 3.22m

a rectangular playground is 40 yd long and 57 ½ ft wide. Find the perimeter

Percent	decimal	fraction
1%	0.01	1/100
5%		
10%		
12 ½%	0.125	1/8
20%		
25%		
33 1/3%		
50%		
75%		
80%		
90%		
99%		
100%	1	
125%	1.25	5/4
150%		
200%		

Use compare/contrast order to write a paragraph about one of the following topics: your favorite relative, your last year compared to this year in school, the effect of eating processed food vs. healthy food.

Circle the letters that should be capitalized in the following sentences.

the statue of liberty is located in new york harbor.

“happy birthday, evelyn!” jack cheered.

playing scrabble is a good way to improve your vocabulary.

pizza and hamburgers were popular choices for the party.

juneau is the capital of alaska, our forty-ninth state.

grandpa told my aunt that uncle henry and sarah went to the grove to go shopping.

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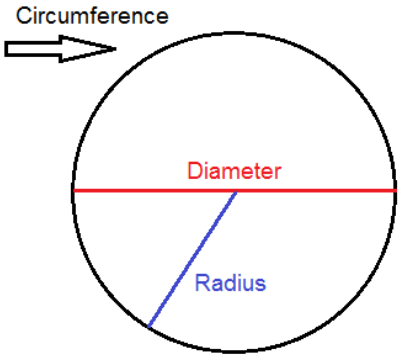
_____

amount read_____

Circles

The radius of a circle is the distance from the center to any point on the circle.
The diameter of a circle is the distance from any point on the circle through the center to the opposite point on the circle.



The perimeter of a circle has a special name: the circumference. There is a formula for finding the circumference (the distance) around the circle.

$$C=\pi d$$

The symbol π is called pi (pronounced pie.) It is a decimal that goes on forever, so you can't know its exact value. However, we round it to 3.14 when solving problems.

To find the distance around a circle take 3.14 and multiply it times your diameter.

What's the diameter of a circle who has a radius of 4 inches?

What's the circumference of a circle whose diameter is 4 centimeters?

What's the circumference of a circle whose radius is 8 ft? * you have to figure out the diameter to solve this first

To find the area of a circle — the inside part — this is the formula:
A= $\pi \bullet r^2$
You take the radius and square it first and then multiply it by 3.14

You try:

What's the area of a circle whose radius is 3 feet?

Find the area AND circumference of a circle that has a radius of 15 yards?

What is the area and circumference of a circle whose diameter is 54 centimeters?

Write a paragraph that is cohesive and unified, using the facts given below. Add details to make each paragraph more interesting.

Marie and I are planning a surprise party.
Autumn will be 10 this Saturday.
Marie is going to take her somewhere.
We're going to decorate the house while she's gone.
She'll be surprised when she walks through the door.
Everyone will be hiding inside the house.

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

Draw a line to divide the subjects from the predicates in the following sentences.

* the first one is tricky. Who is the sentence written to? They are talking to you. The subject is (you) understood. That is how it is said. They assume that it is understood who it is written to.

Have a happy birthday.

The mountains are a popular vacation spot.

Jim took his dog to the vet yesterday.

Salad is a healthy addition to lunch and dinner.

Jim washed and waxed Dad's car.

I am afraid of heights.

Reading often improves your memory.

Sixteen inches of snow fell in the mountains last night.

Grab that ball.

Greg and Amy lived happily ever after.

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_____

amount read_____

Area of polygons.

Do you remember the area of a rectangle?

Area of a rectangle= length x width $A=lw$

When the length and width of a rectangle are equal , the figure is a square. To find the area of a square, you need to know only one measure, the length of a side.

Area of square= (length of side)^2 $A=s^2$

Any parallelogram can be “rearranged” to form a rectangle. For this reason, the area formula for a parallelogram is closely related to the rectangle formula.

To use the parallelogram formula, either pair of parallel sides can be the bases. The height is the perpendicular distance between the bases.

Area of a parallelogram= base x height $A=bh$

A diagonal of a parallelogram separates it into identical triangles. You can find the area of a triangle by thinking of it as one half the area of a parallelogram with the same base and height.

To use the triangle formula, let any side of the triangle be the base. The height is the perpendicular distance between the base and the opposite vertex.

Area of triangle= ½ x base x height $A= \frac{1}{2} bh$

Now it’s your turn to find the area:

Make a sketch of each figure

a rectangle with length 5 cm and width 2.2 cm

Solve

a triangle with base 15 in and height 1 ft

a parallelogram with bases 8 ½ inch and height of 6 inch

a square with a side that measures t inches

Triangle with height 5m and base 3m

a parallelogram with base 220cm and height 15 cm

Informal letters are a good way to keep in touch with friends and relatives. In an informal letter you can use slang and language that is more conversational in tone.

Write a letter to a friend who has moved to another city or town. Explain what you have been doing while your friend has been away.

Change the following sentences to correct any grammar errors.

How quick she runs.

_____

The desk and the chair sits in the corner.

_____

There is only four days until Christmas.

_____

This phone call is for Bill and I.

_____

They mailed the copies to him and I.

_____

None of the neighbors offered his support.

_____

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_____

amount read_____

week 25

Tell whether you need to calculate the perimeter, circumference, or area to find each measure.

the amount of wood needed to frame a circular mirror

the amount of wallpaper needed for a rectangular wall

the amount of decorative molding needed around a square ceiling

the amount of floor space covered by a circular rug

the amount of concrete needed to cover a play area

the amount of fencing needed for a circular garden

the amount of grazing space in a square pasture

9 x1	2 x2	5 x1	4 x3	0 x0	9 x9	3 x5	8 x5	2 x6	4 x7
5 x6	7 x5	3 x0	8 x8	1 x3	3 x4	5 x9	0 x2	7 x3	4 x 1
2 x3	8 x6	0 x5	6 x1	3 x8	1 x 1	9 x0	2 x8	6 x4	0 x7
7 x7	1 x4	6 x2	4 x5	2 x4	4 x 9	7 x0	1 x2	8 x4	6 x5
3 x2	4 x6	1 x9	5 x7	8 x2	0 x8	4 x2	9 x8	3 x6	5 x5
8 x9	3 x7	9 x7	1 x7	6 x0	0 x3	7 x2	1 x5	7 x8	4 x0
8 x3	5 x2	0 x4	9 x5	6 x7	2 x7	6 x3	5 x4	1 x0	9 x 2
7 x 6	1 x 8	9 x6	4 x 4	5 x3	8 x1	3 x3	4 x8	9 x3	2 x0
8 x0	3 x1	6 x8	0 x9	8 x7	2 x 9	9 x4	0 x1	7 x4	5 x8
0 x6	7 x1	2 x5	6 x9	3 x9	1 x6	5 x0	6 x6	2 x1	7 x9

Analogies. Choose the pair of words that best expresses a relationship similar to that of the original pair.

Example:

Selfish: compassion

a) genuine:authenticity
b) serious:passion
c) childish:maturity
d) irresponsible:attention

Someone who is selfish lacks compassion. Someone who is childish lacks maturity.

Your turn:

Conclusion:Essay

a) theme:song
b) meal:dessert
c) scene:play
d) parade:party

A conclusion is part of an essay. A ____is part of a ____.

Locker: storage

a) telephone: communication
b) wallet:cash
c) pencil:paper
d) lake: moisture

A locker is used for storage. A___is used for___.

Excruciating:painful

a) baffling:confusing
b) crippling:stressful
c) improving:hopeful
d) upsetting:exciting

Something that is excruciating is very painful. Something that is ___is very_____.

Write an essay on what you want for Christmas. I know its past the time, but next year:)

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

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_____

amount read_____

In arithmetic, you learned that fractions and decimals that represent the same number are called equivalent. For instance, you learned that there are infinitely many ways to represent the number ½.

½ = 2/4 = 3/6 = 4/8 = … and ½ = 0.5 = 0.50 = 0.500 = …

Similarly in geometry, there are infinitely many ways to picture a given shape and size. For example, although triangles can have different names and be positioned differently, if they are identical in size and shape, then they are congruent.

Geometric figures that have the same size and shape are called congruent. The symbol for congruent is ≅

Line segments are congruent when they have the same length. If you had two line segments that were congruent, you would write it like this:

$\overline{AB} \cong \overline{CD}$

Angles are congruent when they have the same degree measure. If you had two angles that were congruent, you would write them like this:

$$\angle P \cong \angle R$$

You will do more of this in geometry. I want you to get familiar with the symbols and how to write them.

9 x1	2 x2	5 x1	4 x3	0 x0	9 x9	3 x5	8 x5	2 x6	4 x7
5 x6	7 x5	3 x0	8 x8	1 x3	3 x4	5 x9	0 x2	7 x3	4 x 1
2 x3	8 x6	0 x5	6 x1	3 x8	1 x 1	9 x0	2 x8	6 x4	0 x7
7 x7	1 x4	6 x2	4 x5	2 x4	4 x 9	7 x0	1 x2	8 x4	6 x5
3 x2	4 x6	1 x9	5 x7	8 x2	0 x8	4 x2	9 x8	3 x6	5 x5
8 x9	3 x7	9 x7	1 x7	6 x0	0 x3	7 x2	1 x5	7 x8	4 x0
8 x3	5 x2	0 x4	9 x5	6 x7	2 x7	6 x3	5 x4	1 x0	9 x 2
7 x 6	1 x 8	9 x6	4 x 4	5 x3	8 x1	3 x3	4 x8	9 x3	2 x0
8 x0	3 x1	6 x8	0 x9	8 x7	2 x 9	9 x4	0 x1	7 x4	5 x8
0 x6	7 x1	2 x5	6 x9	3 x9	1 x6	5 x0	6 x6	2 x1	7 x9

Analogies

Heriloom:inherited

a) ship:wooden
b) sermon:religious
c) coupon:valuable
d) newspaper:popular

A characteristic of an heirloom is that it is inherited.

Sunscreen: sunburn

a) hope:tornado
b) vaccination:disease
c) dream:sleep
d) carelessness:accident

Sunscreen is used to prevent sunburn.

Aluminum : metal

a) limerick: poetry
b) mathematics:numbers
c) water:thirst
d) rain:season

Aluminum is a type of metal.

Active:idle

a) challenging:difficult
b) dramatic:tragic
c) brief: lengthy
d) scholarly:studious

How can we solve this?

Today I want you to write a one-page paper on the following topic. Use all of your writing rules and do a good job. Your teacher may want you to go back and fix mistakes.

Choose a quote that you especially like and write about what it means to you.

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

Your final requirement for the day is to read. Choose a book that is at your reading level. There are many book recommendations online or you can check out my blog www.plainandnotsoplain.com. Write the book title and how long you read for today. You should read for a minimum of an hour per day.

_____

amount read_____

Powers and square roots

Raising a number to a power is a quick way to multiply a number by itself. For example 5^3 means that you multiply five by itself three times:
5x5x5=125
The number 5 is called the base, and the number 3 is the exponent.

Solve the following:

2^4=_____ 3^4=_____$8^2 =$ _____ 4^3=_____ 10^3=_____

**The powers with 10 in the base are easy to work with. To raise a 10 to the power of a positive whole number, write down the number 1 followed by the number of 0s indicated by the exponent. For example 10^3 is 1,000

Try these:

$10^{2=}$_____ $10^{8=}$_____$10^{5=}$_____$10^{9=}$_____$10^{3=}$_____

Some rules to remember:

- Every number raised to the power of 1 equals that number itself. $5^{1=5}$
- The number 0 raised to the power of any number (except 0) equals 0, because no matter how many times you multiply 0 by itself, the result is 0.

What is 3^4?

What is 10^7?

What is 52^1?

What is 0^8?

The inverse of squaring a number is called finding the square root of a number. Remember inverse undoes an operation.

$\sqrt{25}$= 5 (because 5 x5=25) Look on your calculator for this symbol and you can practice this easily.

What is $\sqrt{36}$?

What is $\sqrt{81}$?

What is $\sqrt{9}$?

What is $\sqrt{49}$?

This is helpful to remember those squares of numbers.

2x2=_____

3x3=_____

4x4=_____

5x5=_____

6x6=_____

7x7=_____

8x8=_____

9x9=_____

10x10=_____

11x11=_____

12x12=_____

Analogies

Epidemic: widespread

a) artist: idealistic
b) island:lonesome
c) emergency:urgent
d) intention:challenged

A characteristic of an epidemic is to be widespread.

Note:melody

a) bone:skeleton
b) movie:film
c) meal:restaurant
d) career:job

A note is part of a melody

Lifejacket:boat

a) medicine:disease
b) seatbealt:plane
c) shield:sword
d) hat:helmet

A lifejacket is used for safety on a boat.

Devout: religious

a) hyper:energetic
b) depressed:angry
c) fit:strong
d) cruel:strange

Someone who is devout is very religious.

Today I want you to write a one page paper on the following topic. Use all of your writing rules and do a good job. Your teacher may want you to go back and fix mistakes.

What does it mean to have empathy? Do you consider yourself to be an empathetic person?

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

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_____

amount read_____

Now let's find the following

$-\sqrt{16}$ $4^2=(4)(4)=16$, so the answer is -4

$\sqrt{2500}$ $50^2=(50)(50)=2500$, so the answer is 50

$\sqrt{0}$ $0^2=0$ so the answer is 0

$\sqrt{\frac{16}{49}}$ $(\frac{4}{7})^2=\frac{4}{7} \bullet \frac{4}{7} = \frac{16}{49}$ so the answer is 4/7

$-\sqrt{0.16}$ $(0.4)^2=(0.4)(0.4)=(0.16)$ so the answer is -0.4

Your turn:

$\sqrt{81}$

$-\sqrt{36}$

$\sqrt{\frac{4}{25}}$

$-\sqrt{0.49}$

$\sqrt{36}+\sqrt{64}$ find and solve

$\sqrt{49} + \sqrt{25}$

$\sqrt{25}$

$\sqrt{81}$

$\sqrt{36}$

$\sqrt{144}$

$5 \bullet \sqrt{121}$

$\sqrt{100} + 87$

$\frac{1}{2}(\sqrt{25})$

ABC ORDER

place the following lists in ABC order

Michigan
North Carolina
Ohio
Alaska
Missouri

Amy
Ashley
Ashlyn
Ada
Anne

Bobbie
Bill
Brent
Benjamin
Bruno

collie
red boned
retriever
pug
lab

ice cream
pudding
brownies
cake
cupcakes
cotton candy

hiking
swimming
biking
tennis
basketball
kayaking

Today I want you to write a one page paper on the following topic. Use all of your writing rules and do a good job. Your teacher may want you to go back and fix mistakes.

Is there such a thing as too much of a good thing? Why or why not?

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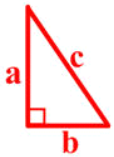
_____

amount read_____

week 26

More triangles

The longest side of a triangle is called the hypotenuse, the two short sides are called legs. The most important formula allows you to find the length of the hypotenuse given only the length of the legs. It is called Pythagorean theorem.



$$a^2 + b^2 = c^2$$

This is a formula like for finding the area, you plug in the numbers.
$a^2+b^2 = c^2$

Find the hypotenuse of a right triangle with legs that are 6 inches and 8 inches.

$6^2+8^2 = c^2$

36+64=100
c=10 because 10 •10=100

Now you try
Find the hypotenuse of a right triangle with legs that are 3 and 4 units.

Find the hypotenuse of a right triangle whose legs are 8 feet and 15 feet.

Find the unknown length, round to the nearest tenth

a^2+$b^2 = c^2$

Lengths of sides of triangle are 5cm and 8cm.

Lengths 28 ft and 35 ft

lengths 4cm and 6 cm

Choose the word in each row that is spelled incorrectly.

happyness	illustrate	journey	kindest
lawyer	majority	naugty	heartily
ignorance	judgement	leisure	majesty
necessity	ocasionally	occurred	partial
restaurant	scheduled	thorough	virtie
obvious	parlor	qualties	realize
sacrfice	territory	uncertain	offense
pamphlets	quantities	receiver	sheme
vague	acknowledgement	canvas	desend
endeevor	flourish	vacancy	weary
yeild	bathe	advertising	carriage
democracy	eiht	ninth	wrought
accordence	bicycle	canceling	deceive
eligebele	inconvenienced	necessarily	perceive

Today I want you to write a one page paper on the following topic. Use all of your writing rules and do a good job. Your teacher may want you to go back and fix mistakes.

What does it mean to be adult?

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amount read_____

Review

Find the perimeter of a square with one side that measures 7 ¼ inch

Find the circumference of a circle with a radius 21 in.

Find the area of a triangle with base 1 yd and height 4 ft

Find the area of a circle with radius 2.3 m

Tell whether you need to calculate the perimeter, circumference, or area to find the amount of sod needed to cover a soccer field.

Find square root if possible. Otherwise approximate the square root to the nearest thousandth.

$\sqrt{3600}$ $\sqrt{\frac{9}{49}}$

$\sqrt{91}$ $\sqrt{147}$

Is a triangle with sides of 16ft, 30ft, and 34 ft a right triangle?

9 x1	2 x2	5 x1	4 x3	0 x0	9 x9	3 x5	8 x5	2 x6	4 x7
5 x6	7 x5	3 x0	8 x8	1 x3	3 x4	5 x9	0 x2	7 x3	4 x 1
2 x3	8 x6	0 x5	6 x1	3 x8	1 x 1	9 x0	2 x8	6 x4	0 x7
7 x7	1 x4	6 x2	4 x5	2 x4	4 x 9	7 x0	1 x2	8 x4	6 x5
3 x2	4 x6	1 x9	5 x7	8 x2	0 x8	4 x2	9 x8	3 x6	5 x5
8 x9	3 x7	9 x7	1 x7	6 x0	0 x3	7 x2	1 x5	7 x8	4 x0
8 x3	5 x2	0 x4	9 x5	6 x7	2 x7	6 x3	5 x4	1 x0	9 x 2
7 x 6	1 x 8	9 x6	4 x 4	5 x3	8 x1	3 x3	4 x8	9 x3	2 x0
8 x0	3 x1	6 x8	0 x9	8 x7	2 x 9	9 x4	0 x1	7 x4	5 x8
0 x6	7 x1	2 x5	6 x9	3 x9	1 x6	5 x0	6 x6	2 x1	7 x9

Circle the correct spelling of the word in the list.

impressiom
impression
impresion
impreshion

jeelous
jealous
jealious
jealouse

retched
wretched
wreatched
wretcked

ocasionaly
occassionally
ockasionaly
occasionally

ackwaintance
aqaintance
acquaintance
aquaintance

Wedesday
Wedneesday
Wednesday
Wednasday

October
Octobre
Octobur
Octeber

Today I want you to write a one page paper on the following topic. Use all of your writing rules and do a good job. Your teacher may want you to go back and fix mistakes.

How do you define bravery? Write about someone who exemplifies bravery to you.

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amount read_____

Probability and Odds

Will the Cubs or the Giants be more likely to win the game? What is the chance of drawing an ace from a deck of cards? What are the possibilities of rain today? When we are uncertain about the occurrences of an event, we can attempt to measure the chances of it happening with probability.

The probability of an event is a ratio that tells how likely it is that an event will take place The numerator is the favorable outcomes and the denominator is the number of possible outcomes.

For example, when you toss a die, there are six ways it can fall. The probability of getting a “2” on one roll of a die is one chance out of six or 1/6 .

Examples:

Collin has a collection of Cds that he plays regularly. He has six rock Cds, three country Cds, and four movie sound track Cds. If Collin chooses a Cd at random, what is the probability that he will pick a country Cd?

$$\frac{number\ of\ country\ Cd = 3}{total\ number\ of\ Cds = 13}$$

The probability of choosing a country Cd is 3 out of 13

Suppose a weather forecaster states that the probability of rain today is ¼ or 0.25. This means that the probability that it will not rain is ¾ or 0.75. The odds that it will rain today are 1:3. The odds that it won’t rain is 3:1

your turn:

Brooklyn has a collection of various cereals on a shelf in the cabinet. Five of the cereals contain corn, two contain rice, and four contain oats. Without looking, she selects a box of cereal for breakfast. What is the probability that the cereal she selects will contain oats?

Jadyn collects stamps from different countries. She has five from Canada, 2 from France, 1 from Russia, 4 from Great Britain, and one from Germany. If she accidentally loses one stamp, what is the probability that it is the stamp from Russia?

The door prize of a party with 25 people is given by writing numbers 1 through 25 on the bottom of the paper plates used. What is the probability that an individual had the winning plate?

Analogies

Assassination:Murder

a) document:certificate
b) beverage:drink
c) relay:race
d) technology:robot

Ignite:extinguish

a) harvest:plant
b) rest:relax
c) investigate:trust
d) remove:confiscate

elderly:youth

a) famous:popularity
b) rational:proof
c) smug:satisfaction
d) well:illness

veins:circulate

a) calculators:think
b) boots:spring
c) laws:enforce
d) ornaments:decorate

Today I want you to write a one page paper on the following topic. Use all of your writing rules and do a good job. Your teacher may want you to go back and fix mistakes.

Where do you want to go to be alone? How do you feel when you are by yourself?

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amount read_____

Statistics and probability

These are two of the most important and widely used applications of math. Statistics is science of gathering and drawing conclusions from data. An individual statistic is conclusion based on this data. Here are some examples:

- ✓ An average family has 2.4 children.
- ✓ Only 43% of students graduate from high school.

Probability is deciding how likely an event is to occur. It has a wide variety of applications in insurance, weather prediction, and sciences.

- ✓ What's the likelihood that the lottery ticket I bought will win?
- ✓ What's the likelihood that it will snow in WNC this winter?

The probability that an event will occur is a fraction whose numerator and denominator are :

$$\frac{\text{number of favorable outcomes}}{\text{total number of possible outcomes}}$$

Favorable means an outcome in which it DOES happen. Possible means one that CAN happen.

For example: What is the probability that a tossed coin will land heads up. There are only two possible outcomes. Only one is favorable—the head's up one. To find the probability make a fraction

$$\frac{\text{number of favorable outcomes}}{\text{total number of possible outcomes}} \qquad \frac{1}{2}$$

The probability that the coin will land heads up is ½ or 1 to 2 or 1:2

You try:

What's the probability that when you roll a die, the number 4 will land face up? ** to figure this out, how many possibilities are there?

what's the probability that in a deck of cards you will pick a King?**how many cards in a deck? How many possible kings?

What's the probability that you will select a day of the week that starts with an S ?

What's the possibility that you will select a month that starts with J?

Consider a true-false test. How many possible outcomes are there if the test consisted of (a) 2 questions? (b) 3 questions?

Circle the word that is spelled INCORRECTLY in each row

genius	headache	inability	justifed
lecture	niether	marriage	onion
immediately	laberatory	maturity	opportunities
recognition	seperate	whooping cough	undoubtedly
thoroughly	paragraph	quiet	recces
sanwiches	Thanksgiving	vegetables	weighed
urgent	variety	wether	affectionate
burow	certificates	discussed	enthusiastic
dormitery	agriculture	believing	calendar
calender	descriptive	fifteen	height
height	grieve	inconvinience	physical
sincerely	esteemed	statuts	politician

Today I want you to write a one page paper on the following topic. Use all of your writing rules and do a good job. Your teacher may want you to go back and fix mistakes.

What qualities make someone good at arguing? Which of those qualities do you have?

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amount read_____

week 27

A solution of an equation with two variables is an ordered pair of numbers that make the equation true. For example, two solutions of the equation y= ½ x are (12,6) and (20,10). An equation with two variables may have infinitely many solutions. Using a table can help you find some of these solutions.

Find the solutions of the equation y= 5x+4. Use -2, -1, 0,1,2 as values for x.

Make a table

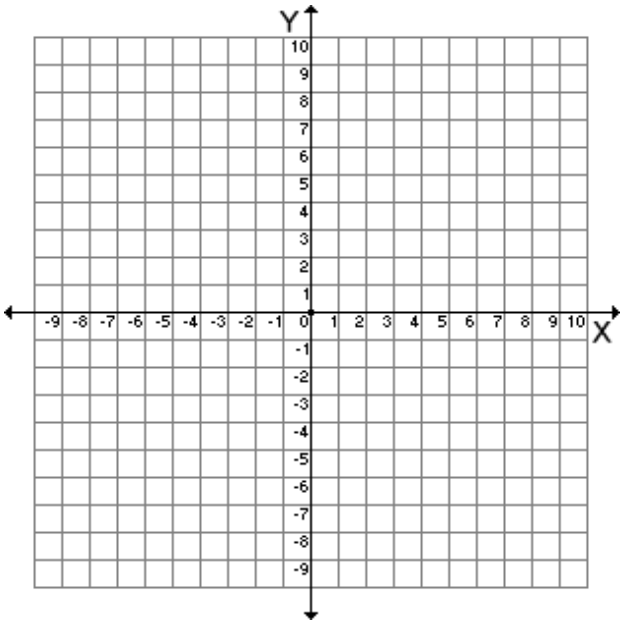
y=5x+4		
x	y	(x,y)
-2	5(-2)+4=-6	(-2,-6)
-1	5(-1)+4=-1	(-1,-1)
0	5(0)+4=4	(0,4)
1	5(1)+4=9	(1,9)
2	5(2)+4=14	(2,14)

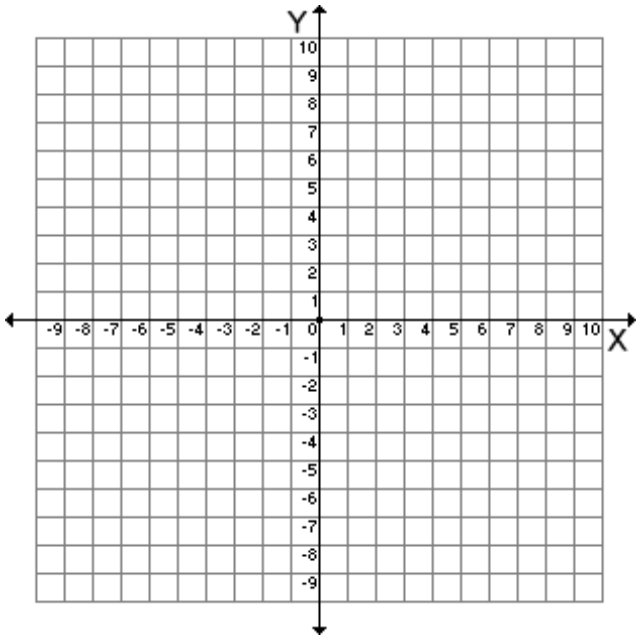
Your turn:

Make a chart and find solutions for the equation y-4x=7. Use -2,-1,0,1,2 as values for x

y-4x=7		
x	y	(x,y)
-2		
-1		
0		
1		
2		

Now graph the two above examples on the two following planes. Draw a line to connect all of the dots.





The dog ate the bowl of delicious food.

What part of speech is “ate?”

a) verb
b) noun
c) adjective
d) adverb

The football player was tackled.
What part of speech is “football”?

a) subject
b) verb
c) preposition
d) adjective

Bill is happily playing in the sandbox.
What part of speech is “happily”

a) verb
b) adjective
c) adverb
d) preposition

The bird is singing.
What is the function of the word “bird”?

a) subject
b) direct object
c) object of the preposition
d) indirect object

As we walked up the hill.
What type of sentence is the above?

a) fragment
b) run-on
c) complete sentence

Choose the fragment.

a) The dog ran
b) Because she ate the pie
c) The cat sneezed
d) The elephant escaped the zoo and cause mass panic

Today I want you to write a one page paper on the following topic. Use all of your writing rules and do a good job. Your teacher may want you to go back and fix mistakes.

Do you think we are living in the "future" today? Why or why not?

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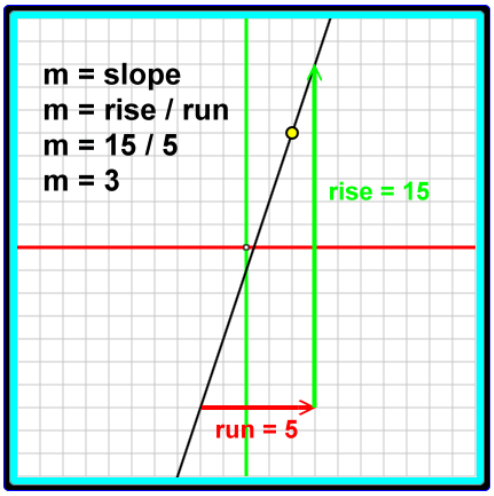
amount read_____

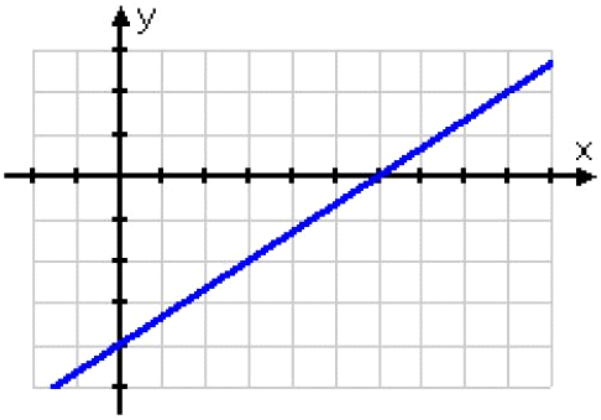
Slopes and intercepts

As you move from one point to another on a line, the vertical movement is called the rise, and the horizontal movement is called the run. The slope of a line is the ratio of the rise to the run. The slope of a line describes the line's steepness and direction.



The slope is the same between any two points on a given line. In the above example, the rise is 15 and the run is 5. So the slope is 15/5.

Your turn: What is the slope in the following graph: Your answer?



9 x1	2 x2	5 x1	4 x3	0 x0	9 x9	3 x5	8 x5	2 x6	4 x7
5 x6	7 x5	3 x0	8 x8	1 x3	3 x4	5 x9	0 x2	7 x3	4 x 1
2 x3	8 x6	0 x5	6 x1	3 x8	1 x 1	9 x0	2 x8	6 x4	0 x7
7 x7	1 x4	6 x2	4 x5	2 x4	4 x 9	7 x0	1 x2	8 x4	6 x5
3 x2	4 x6	1 x9	5 x7	8 x2	0 x8	4 x2	9 x8	3 x6	5 x5
8 x9	3 x7	9 x7	1 x7	6 x0	0 x3	7 x2	1 x5	7 x8	4 x0
8 x3	5 x2	0 x4	9 x5	6 x7	2 x7	6 x3	5 x4	1 x0	9 x 2
7 x 6	1 x 8	9 x6	4 x 4	5 x3	8 x1	3 x3	4 x8	9 x3	2 x0
8 x0	3 x1	6 x8	0 x9	8 x7	2 x 9	9 x4	0 x1	7 x4	5 x8
0 x6	7 x1	2 x5	6 x9	3 x9	1 x6	5 x0	6 x6	2 x1	7 x9

She ran through the woods then she stopped she got a drink from her water bottle.
Choose the correct answer for the above sentence.

a) fragment
b) run-on
c) complete sentence

Which is a fragment?

a) Quickly ran
b) The dog walked slowly
c) The cat was white
d) The chicken was brown

What is the direct object in this sentence?
Kim walked her dog down the street.

a) street
b) dog
c) walked
d) down

What is the function of an appositive?

a) Usually set off by commas
b) Gives extra information.
c) Not needed to make sense in a sentence.
d) All of the above.

An independent clause...

a) can’t stand alone
b) has to stand alone
c) can stand alone
d) has to stand with another clause

Which of the following is not a part of speech?

a) article
b) noun
c) pronoun
d) semicolon

Today I want you to write a one page paper on the following topic. Use all of your writing rules and do a good job. Your teacher may want you to go back and fix mistakes.

Do you feel like you experience diversity regularly? Why or why not

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amount read_____

Systems of equations

Amy's delivery service charges $2 per pound to deliver a package, plus a service fee of $6. Greg's delivery service charges $3 per pound but only a $4 service fee. To find out how much to charge, the companies use the equations y=2x+6 and y=3x+4, where y is what a company charges to deliver a package and x is the weight of the package.

For what weight package will the charges be the same?

To answer this you fin d a solution common to both equations. Two equations with the same variables form a system of equations. An ordered pair that is a solution of both equations is called a solution of the system. You can solve a system of equations by graphing.

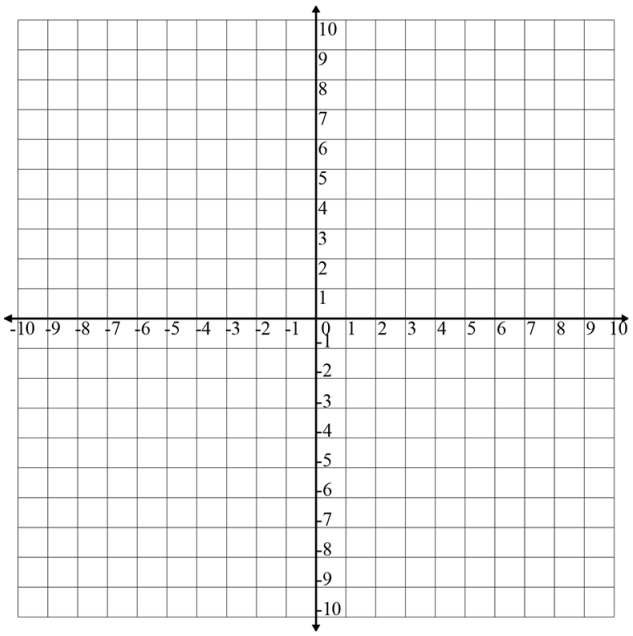
Solve the system by graphing: y=2x+6 and y=3x +4

Make a table for each equation. Then graph both equations on one coordinate plane.

y=2x+6		
x	y	(x,y)
-1	4	(-1,4)
0	6	(0,6)
1	8	(1,8)

y=3x+4		
x	y	(x,y)
-1	1	(-1,1)
0	4	(0,4)
1	7	(1,7)

Now graph both of these lines on the following graph



Draw your lines on the graph and find the point where they intersect. It should be at **(2, 10)**. You can check this by substituting x = 2 into both equations and showing that y = 10 in each one.

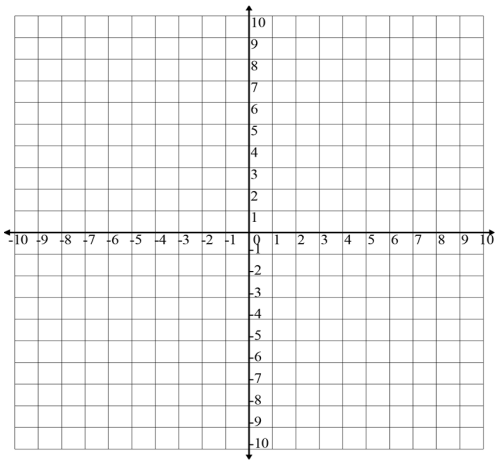
Now solve the system by filling in the chart and graphing

y=- ½ x+2		
x	y	(x,y)
-2	3	(-2,3)
0	2	(0,2)
2	1	(2,1)

y=- ½ x-1		
x	y	(x,y)
-2	0	(-2,0)
0	-1	(0,-1)
2	-2	(2,-2)

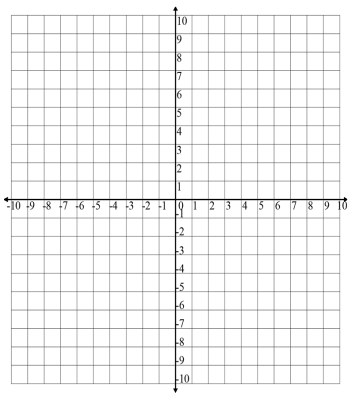
Now graph the following points and draw lines.

Do they intersect? No the lines are parallel, they have no solution.



Now your turn to do it all. Solve each system by graphing. Fill in the chart.

y=3x-1		



y=-x-5		

What is the subject in this sentence?
Jim sat down in the chair.

a) in
b) chair
c) Jim
d) down

What is the function of the word gift in the following:
Amy gave Danielle a Christmas gift.

a) indirect object
b) noun of direct address
c) appositive
d) direct object

What is the function of the word necklace in the following:
Greg gave Amy a necklace for Christmas.

a) direct object
b) subject
c) indirect object
d) noun of direct address

What is the function of the word Jadyn in the following.
Carter gave Jadyn a ring.

a) subject
b) indirect object
c) object of the preposition
d) direct object

What is the function of the word Evan in the following:
Lauren ran after Evan stole her shoes.

a) object of the preposition
b) subject
c) direct object
d) indirect object

Today I want you to write a one page paper on the following topic. Use all of your writing rules and do a good job. Your teacher may want you to go back and fix mistakes.

Find your favorite bible verse, copy it, and explain what it means to you.

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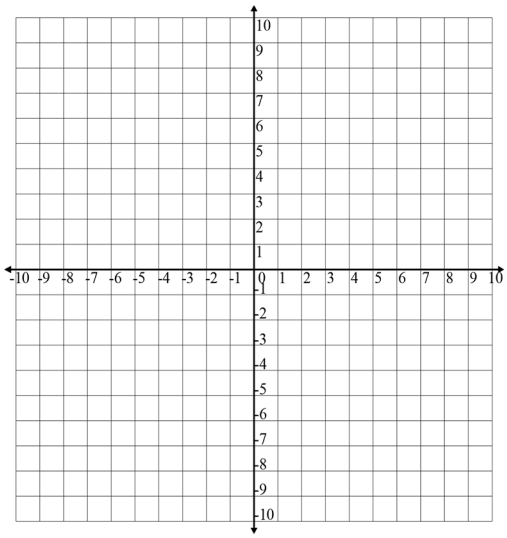
amount read_____

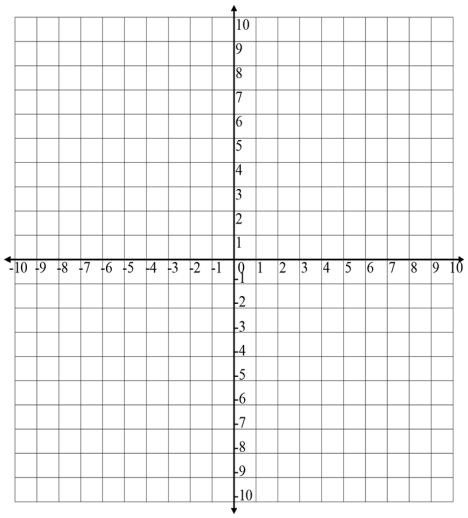
More graphing. Fill in the charts and graph.

y= -3x-2 and y= -3x+1



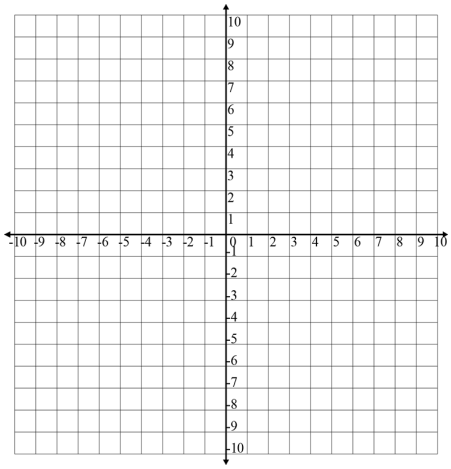
More graphing. Fill in the charts and graph.

y=4x-2 and y= -3x+5



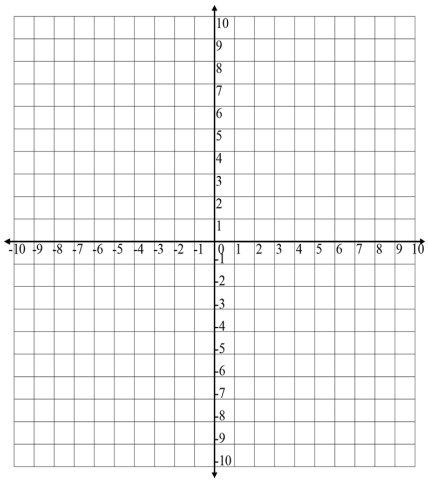
More graphing. Fill in the charts and graph.

y= -2x and y= -2x+3



More graphing. Fill in the charts and graph.

y= -2x+7 and y= 2x -1



Identify the following clauses as either independent or dependent.

While my sisters slept

a) independent
b) dependent

Jennifer sings every day

a) independent
b) dependent

That were in a race

a) independent
b) dependent

Many cards arrived in the mail today

a) dependent
b) independent

Arriving at the shoe store

a) dependent
b) independent

Evan ran

a) dependent
b) independent

Today I want you to write a one page paper on the following topic. Use all of your writing rules and do a good job. Your teacher may want you to go back and fix mistakes.

Write about a time when you did something someone appreciated. How did you feel afterwards?

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_____

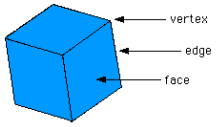
amount read_____

Week 28

Space figures

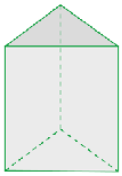
Polygons are sometimes referred to as plane figures because they lie in a plane. Space figures are three-dimensional figures that enclose part of a space.

Some space figures have flat surfaces called faces. A line segment on a space figure where two faces intersect is called an edge. A point where edges intersect is called a vertex.



A polyhedron is a space figure whose faces are polygons. Prisms and pyramids are polyhedrons. They are identified by the number and shape of their bases.

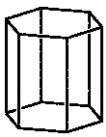
A prism has two parallel congruent bases. The other faces of the prisms will be rectangles. A cube is a rectangular prism whose faces are all square.

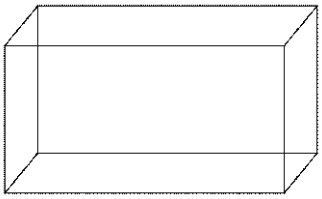


A pyramid has one base. Its other faces are triangles.

Your turn: Identify each space figure below:

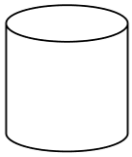
(a) triangular pyramid (b) rectangular prism (c) hexagonal prism

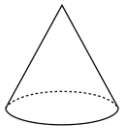


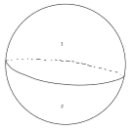


Identify each space figure as:

(a) cylinder (b) cone (c) sphere







Learning to draw space figures can help you visualize them better. To help make them, draw the two bases first and then connect them with lines.

Draw a cube Draw a cylinder Draw a cone

Identify as simple, compound, complex

The boy ran to school

a) simple
b) compound
c) complex

Collin Maryon ate the pizza, and she drank the lemonade.

a) simple
b) compound
c) complex

Ashlyn wants a new iPad, but Paul wants a basketball.

a) simple
b) compound
c) complex

After the children got home from school, they ate some cookies.

a) simple
b) compound
c) complex

What are the four types of sentences?

a) _____
b) _____
c) _____
d) _____

Today I want you to write a one page paper on the following topic. Use all of your writing rules and do a good job. Your teacher may want you to go back and fix mistakes.

Write about a time you disappointed someone. How did you feel afterward?

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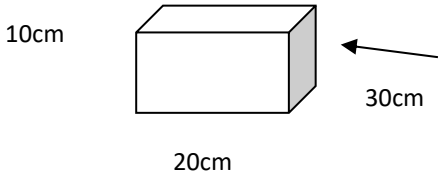
amount read_____

Surface area of prisms

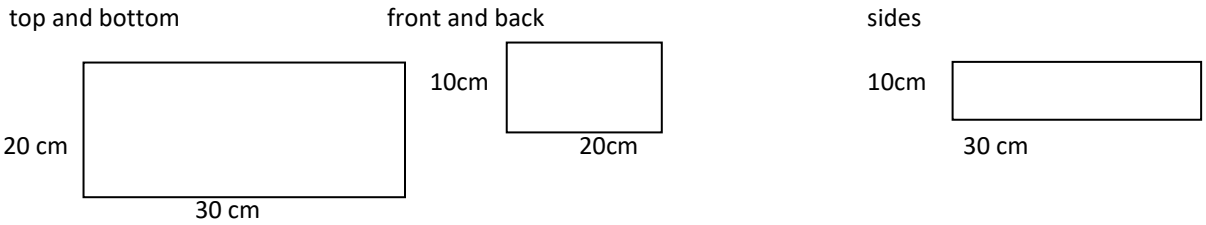
I need to wrap a present. I have a piece of paper measuring 2000cm^2. The dimensions of the box are given below



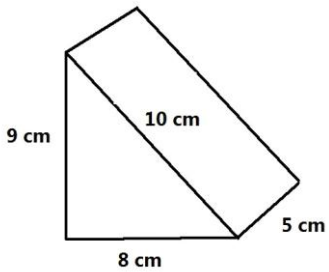
We need to find the surface area of the box or prism.

The surface area of a prism is the sum of the areas of the bases and faces of the prism. Surface area is expressed in square units.

To help, make a sketch of the rectangular faces and label the dimensions.



S.A.=top and bottom +front and back+sides
S.A.= 2 (30•20) + 2 (20•10) + 2 (30•10)
S.A.= 1200 +400 +600
S.A.= 2200
The surface area of the rectangular prism is 2200cm^2
The answer is that I do not have enough wrapping paper.



Your turn: find the surface area of the triangular prism. Draw pictures of all your bases. You should have five pictures. The triangle one you multiply two times because there are two. The rest you just find the area of each and then add them all up.

Draw images to help solve the surface area of a cube prism with sides measuring 8ft, 8ft, 8ft.

Draw images to help solve the surface area of a rectangular prism whose sides measure 2mm, 1mm, 0.5mm

The length of a box of cereal is 5 inch. The width is 2 inch. The height is 7 ¾ inches. Find the surface area of the box.

Analogies

Honor:disgrace

a) comfort:pleasure
b) safety:peril
c) sanity:sense
d) anger:rage

Honor is the opposite of disgrace.

whisper:quiet

a) folktale:traditional
b) whip:evil
c) disease:curable
d) meal:satisfying

A characteristic of whisper is to be quiet.

Patience:virtue

a) essay:story
b) currency:credit
c) denial:reaction
d) faith:religion

Patience is a type of virtue.

Kiss:affection

a) smile:fear
b) joke:importance
c) message:information
d) television:actors

A kiss is used to convey affection.

Today I want you to write a one page paper on the following topic. Use all of your writing rules and do a good job. Your teacher may want you to go back and fix mistakes.

If you could live anywhere in the world, where would you choose to stay? Why?

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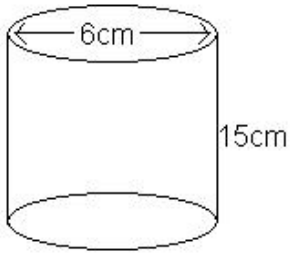
Surface area of cylinders



The surface area of a cylinder consists of the areas of a rectangle and two congruent circles. The length of the rectangle is the circumference of a base of the cylinder, and the width is the height of the cylinder.

Formula: Surface area of a cylinder

Surface area= area of bases + area of curved surface

S.A.= $\pi r^2 + 2\pi rh$

Just fill in the above formula with your numbers. The image gives 6 cm as the diameter, so you have to get half to get the radius.

S.A.= $(3.14)(3^2) + 2(3.14)(3)(15)$

S.A=28.26 +282.60

S.A.=310.86 cm^2

Your turn:

Find the surface area of a cylinder with a height of 20cm and a radius of 10cm

Find the surface area of a cylinder with height of 21 inch and a radius of 14 inch

Draw a sphere pyramid cylinder

Analogies

Network:connect

a) statue: memorialize
b) funeral: eliminate
c) telephone: hear
d) device: create

A network is used to connect.

Devasted: damaged

a) unusual:weird
b) unkind:hurtful
c) incredible:mundane
d) prevalent:common

Algebra:mathematics

a) rain:precipitation
b) bronze:metal
c) tradition:culture
d) trade:economy

Offer:request

a) damage:repair
b) enjoy:entertain
c) experience:participate
d) endure:continue

uninhibited : restraint

- overweight:shape
- unhealthy:control
- intelligent:thought
- generous: selfishness

Today I want you to write a one page paper on the following topic. Use all of your writing rules and do a good job. Your teacher may want you to go back and fix mistakes.

At what age should kids be allowed to make their own decisions? Why?

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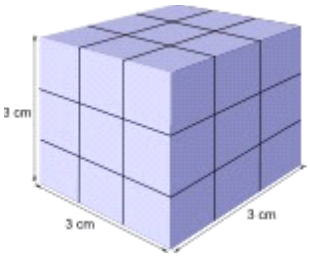
Volumes of prisms and pyramids

When you pack a suitcase or pour a glass of water, the amount of clothing or the amount of liquid your container can hold depends on its volume. The volume of a space figure is the amount of space it encloses. To measure volume you use cubic units: for instance, cubic centimeters (cm^3), cubic inches (in^3) and cubic yards (yd^3). You can find the volume of a rectangular prism by counting the number of unit cubes that can fit inside the prism.



Find the volume in the cube at the left. To measure the volume, think of the prism as layers of unit cubes that measure 1 cm on each side.

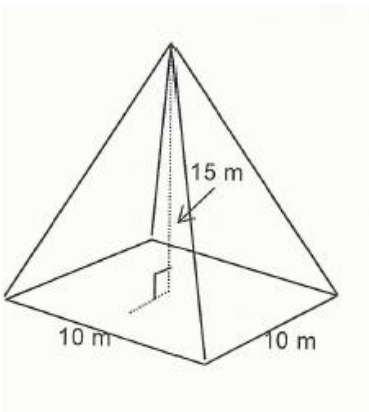
Number of cubes in layer 1: 3•3=9

Number of cubes in 3 layers= 27

The volume is 27 cm^3

Notice that you multiplied the area of a base of the prism by the height of the prism to find the volume. In fact, the volume of any prism is the product of the area of a base and the height. The volume of any pyramid is one third the product of the area of the base and the height.

Find the volume of the pyramid



The base is a rectangle.

B= (10•10)=100

V=1/3 Bh

V=1/3 (100)(15)

V=500m^3

Find the volume of a pyramid whose B=7.5m^2 and h= 16.4m

Find the volume of a rectangular prism whose sides measure: 2.5cm, 6cm, and 1.2 cm

Review

What number is 64% of 350?

Find the area of a circle with a radius of 5.6cm?

Circle the word that is spelled incorrectly in each list.

a) independance
b) journal
c) liable
d) medicine

e) nickels
f) opinion
g) preformance
h) quietly

i) tragedy
j) unfortunately
k) visinity
l) alligators

m) businessess
n) chocolate
o) distinction
p) essential

q) financial
r) unecessary
s) acquaint
t) commissioner

Today I want you to write a one page paper on the following topic. Use all of your writing rules and do a good job. Your teacher may want you to go back and fix mistakes.

Let's compare and contrast today. Comparing life in a small family verses a larger family.

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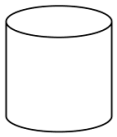
amount read_____

week 29

Volume of cylinders and cones

The formulas for the volumes of a cylinder and cone are similar to those for a prism and pyramid. The base of a cylinder or a cone is a circle, so use πr^2 for the area of the base, B, in the formula.

Volume of a cylinder= area of the base x height



$V=\pi r^2 h$

Volume of a cone= 1/3 x area of the base x height

$V= 1/3\ \pi r^2 h$

For example: The diameter of a cylinder is 30m and the height is 11m. Find the volume of the cylinder.

The radius, r, is ½ (30)=15

$V= 3.14\ (15^2)\ (11)$

7771.5 m^3

Find the volume of a cone with radius 14 in and height 12 in.

$V= 1/3\ \pi r^2 h$ *remember π =3.14 or 22/7

$V= 1/3\ (22/7)(14^2)\ (12)$

$V=2464\ in^3$

Match each figure with the formula for its volume

cone	$V=Bh$
prism	$V=\pi r^2h$
pyramid	$V=1/3\ Bh$
cylinder	$V=1/3\ \pi r^2h$

The diameter of a can of paint is 8 in and the height is 10 in. Find the volume.

The height of a funnel is 12 cm and the radius of the base is 7cm. Find the volume of the funnel.

Find the square root of 8100

Circle the misspelled word in each group

a) threaten
b) unusually
c) violance
d) whistle

e) ancient
f) blizzard
g) guardian
h) inferer

i) license
j) minimum
k) orignailly
l) physician

m) refrigerater
n) separately
o) tremendous
p) initiation

q) substantial
r) sufficient
s) carnivel
t) desperate

u) especially
v) forehead
w) glorieus
x) pretty

Today I want you to write a one page paper on the following topic. Use all of your writing rules and do a good job. Your teacher may want you to go back and fix mistakes.

What subject do you think is the most important to learn in school and why.

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amount read_____

Spheres

Suppose you were to cut open a sphere and lay it flat. The area of the figure formed is the surface area of the sphere. This surface area would be four times the area of a circle with the same radius as the sphere.

Use these formulas to find the surface area and the volume of a sphere.

Surface Area S.A.=4 πr^2

Volume $V=\frac{4}{3}\pi r^3$

Find the surface area and volume of a shere with a diameter of 12 m.

r= ½ d= ½ •12=6

Substitute 6 for r in each formula.

S.A.=4 (3.14)(6^2)

S.A.=4(3.14)(36)

S.A.= 452.16

We label surface area as m^2 and volume as m^3

$V=\frac{4}{3}(3.14)(6^3)$

$V=\frac{4}{3}(3.14)(216)$

V=904.32

Your turn:

Find the surface area of a sphere with a radius of 10mm

Find the volume of a sphere with radius of 21 yd

The radius of a basketball is 12cm. What is the surface area AND the volume

Fix all errors in the following sentences.

“Would you like to accompany me” ? he asked?

_____

i cann’t remember if her birthday is on sat., sunday, monday or Tuesday

_____

¼ of the class voted for pizza

_____

I owe you $14.00, not $17?

_____

You are required to bring the following: Sleeping bag, tent, clothes.

_____

Go West three blocks and turn right

_____

Is that book your’s?

_____

Today I want you to write a one page paper on the following topic. Use all of your writing rules and do a good job. Your teacher may want you to go back and fix mistakes.

Do you think a college education is required for success in our world? Why or why not?

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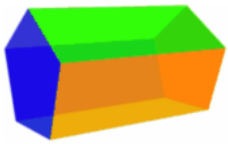
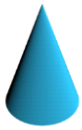
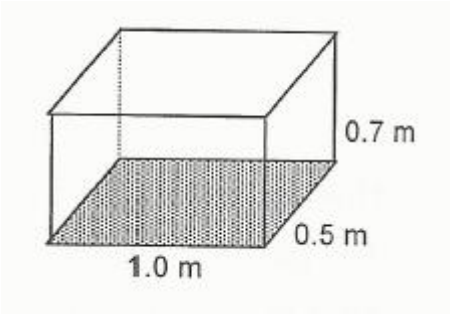
Identify each space figure

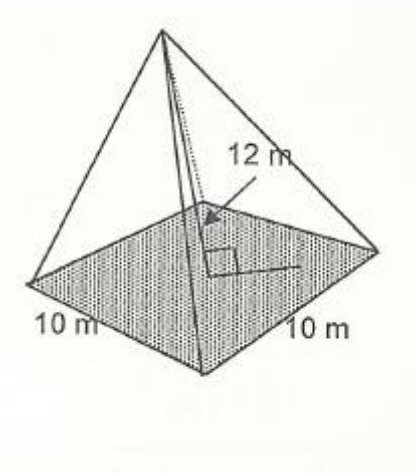




Find the surface area of each figure



Find the volume of the following figure



Find the surface area and volume of a sphere with a radius of 24 inch

What is the surface area and the volume of a sphere with a diameter of 60 ft

Find the volume of a cube with sides measuring 9inch

Draw a cylinder

Draw a cone

Draw a cube

Circle each letter that is to be capitalized.

where were tim and sam going?

i wish i could go to california with my mom.

my aunt karen was visiting with sam in detroit.

the navaho indians live in interesting buildings.

did you attend marysville high school?

kim lives in canada.

my nationality is french.

did you take the math course at school?

Did you take math iii at school?

Today I want you to write a one page paper on the following topic. Use all of your writing rules and do a good job. Your teacher may want you to go back and fix mistakes.

Compare/contrast summer fun vs. winter fun

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amount read_____

Simplifying polynomials

Each expression below is a polynomial, a variable expression consisting of one or more terms.

$3x^2$ $-4t$ $2a^2-3ab+2b^2$ x^3-1

Some polynomials have special names.

A monomial has one term . Example $4x^2$ and $-4t$

A binomial has two terms. Example x^3-1

A trinomial has three terms. Example $2a^2-3ab+2b^2$

When you are working with a polynomial, it is often helpful to write the polynomial in standard form. To do this, write the terms in order from the highest to the lowest power of one of the variable's

Write each polynomial in standard form.

$4x^2+x-3x^3 \longrightarrow -3x^3+4x^2+x$

$8c^3+7-9c+2c^4 \longrightarrow 2c^4+8c^3-9c+7$

Like terms have the same variables raised to the same powers. To simplify a polynomial, you combine like terms and write the resulting polynomial in standard form.

Simplify $12c^3-4c^2-8c^3-5+7c^2-4c$

Group like terms $(12\ c^3-8c^3)+(-4c^2+7c^2)-5-4c$

$4c^3+3c^2-5-4c$

$4c^3+3c^2-4c-5$

Your turn:

Is the polynomial a monomial, binomial, or a trinomial?

$ab+3$ $x+y-2xy$ 5 $-t^6+s^4$

Tell whether the terms are like or unlike terms

$3m^3, 5m^3$ $7x^4, 4x^7$ xy^3, xy $3ab^2, 5ab^2$

Write each polynomial in standard form

$3g^3+4g^3-3g+8-7g^2$

$4k-8k^3+7k^2-9k^3$

simplify

$2x^2+x+2+3x-x^2+5$

$2w^3-6w^2+7w^3-7$

$-x^3+2x-3-4x^3-2x+3$

$6-2a^4+a^2-1+6a^4-a^2$

Circle the letters that need to be capitalized.

the state of south dakota has mount rushmore in it.

the weekends are saturday and sunday.

to the north lies montana, a state on fire.

the hottest months are july and august.

the catholics and mormons are two religions that send out missionaries.

next summer we need to go to florida in the south.

My brothers are peter, paul, and jim.

my favorite season is spring.

Today I want you to write a one page paper on the following topic. Use all of your writing rules and do a good job. Your teacher may want you to go back and fix mistakes.

Choose another quote that you especially like and write about what it means to you.

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Your final requirement for the day is to read. Choose a book that is at your reading level. There are many book recommendations online or you can check out my blog www.plainandnotsoplain.com. Write the book title and how long you read for today. You should read for a minimum of an hour per day.

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amount read_____

week 30

Adding polynomials

Add $(6x^4-2x^3+7x^2+x-6)$ and $(-7x^4+2x^3-5x+7)$.

Line up like terms vertically.

$$\begin{array}{rrrrr} 6x^4 & -2x^3 & +7x^2 & +x & -6 \\ \underline{-7x^4} & \underline{+2x^3} & & \underline{-5x} & \underline{+7} \end{array}$$

$-1x^4+0x^3+7x^2-4x+1$ we get rid of the $0x^3$ because it means none

$-1x^4+7x^2-4x+1$

Your turn to add:

$(2a^2+3a+5) + (3a^2+a+5)$

$(3x^2+5x+9) + (4x^2+6x+2)$

$(-7a^2-4a+5) + (9a^2+2a-7)$

Fill in the periods in the correct spots.

Mr and Mrs Gregory J Maryon were honored at dinner

Ten and three quarters are 1075 in decimals

Add together 825 and 175 in decimals which should equal ten

I feel sorry for the K P O association.

Amy J Millin, and Dr A P Muir are now married

It seems they take so much from my check for FICA

Write all twelve months and their abbreviations

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Today I want you to write a one page paper on the following topic. Use all of your writing rules and do a good job. Your teacher may want you to go back and fix mistakes.

Why is it important to forgive?

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To subtract a polynomial, add the opposite of each term of the polynomial.

Example:

$(3n^2+4n+8) – (2n^2+n+5)$

$(3n^2+4n+8) + (-2n^2-n-5)$

$(3n^2-2n^2) + (4n-n) + (8-5)$

$n^2+3n +3$

Example:

$(7a^3+3a^2-10) - (9a^3+4a^2-6a-9)$

Line up like terms. Insert zero terms as needed. Add the opposite.

$$\begin{array}{l} 7a^3+3a^2+0a-10 \\ \underline{9a^3+4a^2-\ \ 6a-9} \end{array} \qquad \begin{array}{l} 7a^3+3a^2+0a-10 \\ \underline{-9a^{3-}4a^2+ 6a+ 9} \\ \\ -2a^3-a^2+6a-1 \end{array}$$

Your turn:

$(5a^2+7a+8)- (3a^2+4a+2)$

$(3w^3-5w^2-8) – (6w^3+2w-18)$

$(-6x^2+5x-9)-(-3x^2-x+7)$

$(8a^3-6a^2-2a+9)-(4a^3-2a^2+6a-8)$

$(7a^2+4a+5)+(2a^2-5a+8)-(3a^2-6a+4)$

Circle all the letters that should be capitalized.

ashlyn maryon, d.d.s. graduated from the university of michigan in ann arbor for her b.s.

“i forgot, mom,” said collin, “whether i told you about my new boat waverunner.”

the letter began, “dear jadyn, “ and ended with “your best friend.”

the president of the united states chooses his cabinet which the senate must confirm.

we will all be going to tuxedo park for its grand opening celebration on saturday, september 23.

are you going to be home for christmas day this year?

my dog sadie, has died on tuesday morning.

Today I want you to write a one page paper on the following topic. Use all of your writing rules and do a good job. Your teacher may want you to go back and fix mistakes.

Write explaining the importance of being able to see a situation from another person's point of view.

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amount read_____

Multiplying a polynomial

Multiply: $-4(2x^2+5x-3)$

$-8x^2+(-20x)-(-12)$

$-8x^2-20x+12$

Recall that to multiply powers having the same base, you add the exponents. You can use this rule to multiply monomials.

Multiply: $(3a^3b^2)(-5a^2b^4)$

$3(-5)(a^3 \bullet a^2)(b^2 \bullet b^4)$

$-15(a^{3+2})(b^{2+4})$

$-15a^5b^6$

To multiply a polynomial of two or more terms by a monomial, you use the distributive property and the rule for multiplying powers of the same base.

Multiply $4x^2(7x^3+2x^2-6x-4)$

$4x^2(7x^3)+4x^2(2x^2)-4x^2(6x)-4x^2(4)$

$28x^5+8x^4-24x^3-16x^2$

Your turn:

$7(2x^2+x+2)$

$(-10x^4y)(10xy^4)$

$4a(6a^2+4a+5)$

$3d^2(5d^3-8d^2+7d-6)$

Add commas where needed in the sentence. *A tip, think about where you would naturally pause while reading the sentence.

After you finish doing the dishes the floor needs sweeping.

To get the correct results you must follow the proper order of adding ingredients.

The answer without doubt will make all the difference.

During the last game of the season a riot took place.

To get the job done you will need to pace yourself.

To Evan Collin is a hero.

An apple not an orange keeps the doctor away.

You really like her don’t you!

We are still going to lunch aren’t we?

He wanted to go to the park but no one would give him a ride.

Today I want you to write a one page paper on the following topic. Use all of your writing rules and do a good job. Your teacher may want you to go back and fix mistakes.

Write an essay explaining what makes a great leader.

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Your final requirement for the day is to read. Choose a book that is at your reading level. There are many book recommendations online or you can check out my blog www.plainandnotsoplain.com. Write the book title and how long you read for today. You should read for a minimum of an hour per day.

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amount read_____

Multiplying Binomials

Multiply $(2n+3)(n+2)$

Use the distributive property.

$2n\ (n+2)+3(n+2)$

$2n^2+4n+3n+6$

$2n^2+7n+6$

Some polynomials involve subtraction. Pay careful notice to use the correct signs when multiplying such polynomials.

$(3x-2)(7x+5)$

$3x(7x+5)-2(7x+5)$

$21x^2+15x-14x-10$

$21x^2+x-10$

Your turn:

$(x+4)(x+2)$

$(4y-2)(6y+7)$

$(x-4)(4x-1)$

$(4x-6)(3x-5)$

$(5c-3)(5c-3)$

$(2x-5)(2x+5)$

$(4d+7)(4d-7)$

$(2x+1)(2x+1)$

Prefixes are added to the beginning of a word to change its meaning. A common one is pre- which means before.

Answer the following:

Why might you buy premade food?

a) you don't want to cook it yourself
b) you want to cook it yourself

If a star can only be seen during the predawn hours, when might it be seen?

a) 6:00 P.M.
b) 4:00 A.M.

Why might your teacher give you a pretest?

a) to see how much you know before you start a lesson
b) to see how much you know after you finish a lesson

When might you prejudge a situation?

a) once you know all the facts
b) before you know all the facts

When would you preheat an oven?

a) a few minutes before you're ready to use it
b) right when you're ready to use it

When might you read a preprint of a book?

a) when you buy the finished book
b) before the book is published

When might you see a preview for a new television show?

a) before the show has been released
b) after the show has been released

When would you pretreat a stained shirt?

a) before putting it in the washing machine
b) after the stain has come out

Today I want you to write a one page paper on the following topic. Use all of your writing rules and do a good job. Your teacher may want you to go back and fix mistakes.

Your city council is considering a proposal that would ban the use of cell phones in privately owned businesses such as restaurants, movie theaters, and retail stores. Violators would be subject to a fine. What is your position on the issue? Write a letter in which you convince the city council to support your position, giving strong evidence for your reasons.

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week 31

Let's review

Write each polynomial in standard form

$4x + 5x^3 + 6x^4 - 3x^2 - 8$

$5a^2 - 7a + 4a^5 - 2 + 9a^3$

Simplify

$4x^3 + 4x^2 + 8x - x^3 + 7$

$7c^3 - 3c - 5c + 4 - 2c^2 + 1$

Find each answer

$(x^2+6x+2) + (x^2+2x+6)$

$(z^2-4z+2) + (z^2+z-6)$

$(2b^3+b^2-4)-(b^3-b^2+2)$

$5xy^2(-2x^3y^4)$

$-3a^2(5a^3-3a^5)$

$(2x+3)(4x+5)$

Prefixes are added to the beginning of words to change the meaning of the root word. A common one is re- which means to do it again. Answer the following:

Who needs a reminder to return his library books?

a) a person who usually forgets
b) a person who usually remembers

Which might you refurnish?

a) a new house with no furniture
b) an old house with old furniture

Why might you reenter a building?

a) because you have never been inside
b) because you left your jacket inside

Why might you rethink what to eat for breakfast?

a) because you noticed the milk was spoiled
b) because you are going to eat pancakes

A person who retells a story does what?

a) tells a different story
b) tells the same story again

If you have to replace something what do you have to do?

a) buy it again
b) buy something completely different

If you are going to remarry your husband do you

a) marry him again
b) divorce him

I am repainting the table, did I

a) remove all the paint
b) paint it again

Today I want you to write a one page paper on the following topic. Use all of your writing rules and do a good job. Your teacher may want you to go back and fix mistakes.

In some countries every young person must serve two years of military service. Should we have a similar policy in the United States? Explain your reason in detail.

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Dividing a polynomial by a monomial

To add or subtract fractions with like denominators, you use the following rules.

$\frac{a}{c} + \frac{b}{c} = \frac{a+b}{c}$ and $\frac{a}{c} - \frac{b}{c} = \frac{a-b}{c}$

By using these rules in reverse, you can divide a polynomial by a monomial.

Divide

$$\frac{4a^5+8a^4+6a^2}{2a} = \frac{4a^5}{2a} + \frac{8a^4}{2a} + \frac{6a^2}{2a}$$

$$= \frac{4a^{5-1}}{2} + \frac{8a^{4-1}}{2} + \frac{6a^{2-1}}{2}$$

$=2a^4+4a^3+3a$

Dividing a polynomial by a monomial, divide each term of the polynomial by the monomial and simplify.

Divide

$$\frac{5x^7y^4 - 35x^5y^5+20x^3y^3}{-5x^3y}$$

$$\frac{5x^7y^4}{-5x^3y} - \frac{35x^5y^5}{-5x^3y} + \frac{20x^3y^3}{-5x^3y}$$

$-x^4y^3-(-7x^2y^4)+(-4y^2)$

$= -x^4y^3+7x^2y^4-4y^2$

Your turn:

$$\frac{9x-12y}{3}$$

$$\frac{5m^7+4m^2}{m^2}$$

$$\frac{24t^8+64t^3+8t^2}{8t^2}$$

$$\frac{21de+24de^2+27d^2e}{3de}$$

$$\frac{16r^4u^5-12r^7u^6}{-4r^4u^5}$$

The prefix un- means not. Answer the following questions.

If I am unable to meet you, will I

a) meet you later
b) not meet with you

A guest that is unexpected is one who

a) shows up randomly
b) comes to the party on time

If you are unhealthy you probably

a) eat healthy food
b) eat junk food

Which would be unusual

a) an alligator on a Christmas tree
b) an angel on a Christmas tree

If you were unafraid you would probably

a) go sky diving
b) take a walk in your yard

The kids unfastened their seatbelts, what did they do

a) put them on
b) took them off

If I ate uncooked vegetables would I be eating

a) stir fry
b) veges and dip

If my two sisters were unlike, would they

a) both have brown hair, brown eyes
b) one have brown hair, brown eyes and one have red hair green eyes

Today I want you to write a one page paper on the following topic. Use all of your writing rules and do a good job. Your teacher may want you to go back and fix mistakes.

A well-known football coach once said, "Winning isn't everything, it's the only thing." Do you agree or disagree with this statement? Write, stating your position and support it with convincing reasons.

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Your final requirement for the day is to read. Choose a book that is at your reading level. There are many book recommendations online or you can check out my blog www.plainandnotsoplain.com. Write the book title and how long you read for today. You should read for a minimum of an hour per day.

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amount read_____

REVIEW

Write each polynomial in standard form

$c^3-2c^2+6c^4-9c+7$

Simplify

$6b^3+7b^2-4b^3+5-11+b$

Add

$(3x^2+5x+2)+\ (x^2-2x-1)$

Subtract

$(9b^2+6b-5)\ -(3b^2+5b+7)$

Multiply

$3b(7b^2-4b+3)$

$(4x+3)(3x+5)$

Divide

$$\frac{7d^3-21d^2+14d}{7d}$$

$$\frac{8m^6-24m^5+32m^3}{-8m^2}$$

The prefix mis- means not as well. Answer the following questions.

If your children are misbehaving in church, they are likely to be

a) running in the halls
b) sitting quietly reading their Bibles

If someone mispronounces your name, they

a) say it correctly
b) say it wrongly

The misspelling of this word is

a) arithmetic
b) arithmatic

If I misplaced my keys they are

a) found
b) lost

If you were to mistreat your brother you would more than likely receive a

a) reward
b) punishment

If someone was misleading you, they would be

a) directing you
b) tricking you

A way to misuse your bike would be to

a) put it away in the garage
b) leave it out in the rain

Today I want you to write a one page paper on the following topic. Use all of your writing rules and do a good job. Your teacher may want you to go back and fix mistakes.

Some people believe it's better to grow up in a small town. Other people think it's better to grow up in a big city. What is your position on this issue, and what reasons support your position?

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Your final requirement for the day is to read. Choose a book that is at your reading level. There are many book recommendations online or you can check out my blog www.plainandnotsoplain.com. Write the book title and how long you read for today. You should read for a minimum of an hour per day.

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What information is not needed to solve this problem

Joe earns $9 per hour and works 8 hours per day. He works 40 hours per week. How much does Joe earn per week?

a) earns $9 per hour
b) works 8 hours per day
c) works 40 hours per week
d) all the information is needed

Evaluate 45.97 +x when x=32.5

a) 13.47
b) 49.22
c) 4922
d) 78.47

Evaluate 54.4 –a when a= 17.9

a) 72.3
b) 46.5
c) 36.5
d) 37.5

Ashlyn, Collin, Evan, and Lauren live 0.61mi, 0.061mi, 0.601 mi, 0.16 mi from school, respectively. Who lives closest to school?

a) Ashlyn
b) Collin
c) Lauren
d) Evan

Evaluate 247.04÷ a when a = 6.4

a) 38.6
b) 253.44
c) 240.64
d) 386

Evaluate 16m when m=4.3

a) 688
b) 6.88
c) 0.688
d) 68.8

List 0.847, 0.0847,8.47,0.1847 in order from least to greatest.

a) 8.47,0.847,0.1847,0.0847
b) 0.1847,0.0847,0.847,8.47
c) 0.0847,0.1847,0.847,8.47
d) 8.47,0.1847,0.0847,0.847

Write in exponential form.

4•4•4•4•4

a) 5^4
b) 20
c) 4^5
d) 1024

The volume of a cube is 8^3cubic feet. How many cubic feet is that?

a) 24
b) 83
c) 6561
d) 512

Another prefix is dis- It means apart, asunder, away, having a negative force. Answer the following questions.

If you were to disagree on what to name your child with your spouse. More than likely, you will

a) be happy
b) be upset

If you disconnected from Facebook, you would

a) join
b) cancel

Can people trust you if you're a dishonest person?

a) yes
b) no

If you dislike broccoli, would you eat it for dinner?

a) no
b) yes

If you were to dismount a horse, you would be

a) getting on
b) getting off

If your room was in disorder, would it be clean?

a) yes
b) no

If someone wanted to disown something, would they

a) keep it
b) get rid of it

If someone is disloyal to their country, would they follow the laws

a) yes
b) no

Today I want you to write a one page paper on the following topic. Use all of your writing rules and do a good job. Your teacher may want you to go back and fix mistakes.

Your friend wants to get a part time job after school or on weekends. Write a composition telling your friend all the steps he or she should take in order to get a part time job. Give some pointers too.

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9 x1	2 x2	5 x1	4 x3	0 x0	9 x9	3 x5	8 x5	2 x6	4 x7
5 x6	7 x5	3 x0	8 x8	1 x3	3 x4	5 x9	0 x2	7 x3	4 x 1
2 x3	8 x6	0 x5	6 x1	3 x8	1 x 1	9 x0	2 x8	6 x4	0 x7
7 x7	1 x4	6 x2	4 x5	2 x4	4 x 9	7 x0	1 x2	8 x4	6 x5
3 x2	4 x6	1 x9	5 x7	8 x2	0 x8	4 x2	9 x8	3 x6	5 x5
8 x9	3 x7	9 x7	1 x7	6 x0	0 x3	7 x2	1 x5	7 x8	4 x0
8 x3	5 x2	0 x4	9 x5	6 x7	2 x7	6 x3	5 x4	1 x0	9 x 2
7 x 6	1 x 8	9 x6	4 x 4	5 x3	8 x1	3 x3	4 x8	9 x3	2 x0
8 x0	3 x1	6 x8	0 x9	8 x7	2 x 9	9 x4	0 x1	7 x4	5 x8
0 x6	7 x1	2 x5	6 x9	3 x9	1 x6	5 x0	6 x6	2 x1	7 x9

Find the answer $24 \div 8 + 4 \times 3^2$

a) 63
b) 147
c) 39
d) 441

Find the next number in the pattern: 3,6,10,15,____

a) 30
b) 21
c) 18
d) 20

Evaluate 412.5 +n when n=86

a) 498.5
b) 326.5
c) 421.1
d) 403.9

Write 76,500 in scientific notation

a) 7.65×10^4
b) 76.5×10^3
c) 7.65×10^3
d) 765×10^2

The exact weight of a package rather than the estimated weight is needed to ?

a) store the package on a shelf
b) carry the package on a bike rack
c) mail the package
d) all of the above

Suffixes are added to the end of the root word to change the meaning. –able means capable of, susceptible of, fit for, given to, tending to. Answer the questions.

If something is breakable then

a) it is fragile
b) it is solid

If an article of clothing is exchangeable, then

a) you can exchange it
b) you cannot return it

If something is pleasurable, it makes you

a) happy
b) sad

If a job is manageable then

a) you are likely to keep it
b) you are likely to quit

If a couch is moveable, then

a) you can move it
b) you can't move it

Is scribbling considered readable

a) yes
b) no

If a disease is curable, then you

a) will be sick forever
b) be healthy again

Today I want you to write a one page paper on the following topic. Use all of your writing rules and do a good job. Your teacher may want you to go back and fix mistakes.

Think about your favorite season, then write an essay describing that season. Include details so that a reader can imagine what it is like to experience the season, and make sure it is clear from your description why this season is your favorite.

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amount read_____

Evaluate a+b+2 when a=4 and b=8

a) 64
b) 34
c) 12
d) 14

Simplify x^2y^3

a) $(xy)^5$
b) xy^5
c) $(xy)^6$
d) already simplified

During the last 3 days, Amy drove 120 mi, 380mi, and 250 mi. Gas costs $2.10 per gallon. Her car used 30 gal of gas. Which of the following cannot be determined?

a) number of mi/gal car averages
b) number of miles driven
c) capacity of gas tank
d) total cost of gas used

What number is greatest?

a) 0.2346
b) 0.3264
c) 0.3246
d) 0.3624

Evan bought 3lb of apples at $.89/lb and 2 lb of grapes at $2.49/lb. Find the total cost.

a) $7.65
b) $3.38
c) $9.25
d) $8.45

Evaluate the expression

$5+3(x-y^2)$ when x=10 and y=2

a) 197
b) 48
c) 512
d) 23

Write 6.45 kg in grams

a) 645 g
b) 64.5g
c) 6450g
d) 64,500g

Find the faction rule

x	?
2	3
3	5
4	7
5	9
6	11

a) x+1
b) 3x-3
c) 2x-1
d) 4x+5

Simplify 3x +5y+4x

a) 12xy
b) 12(x+y)
c) 7x+5y
d) 5x+7y

Write 43.5mm in cm

a) 435 cm
b) 0.435 cm
c) 4.35 cm
d) 4350 cm

The suffix –ful means full of, able to, as much as will fit, characterized by.

Answer the following:

If something is colorful, it

a) has lots of color
b) is muted in color

If you had a restful sleep last night you,

a) you probably slept 8 hours
b) you probably slept only 2 hours

If your grandma has a youthful appearance she..

a) looks young
b) looks old

‘

If you had a delightful visit from an old friend you

a) probably would want them to come back
b) you would be glad they left

If you are fearful of dogs...

a) you like them
b) you are scared of them

Today I want you to write a one page paper on the following topic. Use all of your writing rules and do a good job. Your teacher may want you to go back and fix mistakes.

Think of a time when you experience a rainstorm. In a composition, use sensory details to describe what the rainstorm was like so that a classmate could clearly imagine the experience.

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_____

amount read_____

Find the sum -42+18

a) -60
b) -24
c) 60
d) 24

Find the quotient $\frac{-32+8}{-4}$

a) 10
b) -10
c) 6
d) -6

Evaluate $3-2c^2$ when c=-5

a) -47
b) -97
c) 53
d) -22

Write in order from least to greatest:

|12|,|0|,|-15|,|-1|

a) |0|,|-1|,|12|,|-15|
b) |-15|,|-1|,|0|,|12|
c) |-15|,|12|,|-1|,|0|
d) |12|,|0|,|-15|,|-1|

Simplify -4(-2t+3)

a) -8t+12
b) 8t-12
c) 8t+12
d) -8t-12

9 x1	2 x2	5 x1	4 x3	0 x0	9 x9	3 x5	8 x5	2 x6	4 x7
5 x6	7 x5	3 x0	8 x8	1 x3	3 x4	5 x9	0 x2	7 x3	4 x 1
2 x3	8 x6	0 x5	6 x1	3 x8	1 x 1	9 x0	2 x8	6 x4	0 x7
7 x7	1 x4	6 x2	4 x5	2 x4	4 x 9	7 x0	1 x2	8 x4	6 x5
3 x2	4 x6	1 x9	5 x7	8 x2	0 x8	4 x2	9 x8	3 x6	5 x5
8 x9	3 x7	9 x7	1 x7	6 x0	0 x3	7 x2	1 x5	7 x8	4 x0
8 x3	5 x2	0 x4	9 x5	6 x7	2 x7	6 x3	5 x4	1 x0	9 x 2
7 x 6	1 x 8	9 x6	4 x 4	5 x3	8 x1	3 x3	4 x8	9 x3	2 x0
8 x0	3 x1	6 x8	0 x9	8 x7	2 x 9	9 x4	0 x1	7 x4	5 x8
0 x6	7 x1	2 x5	6 x9	3 x9	1 x6	5 x0	6 x6	2 x1	7 x9

The suffix-less means without and in adjectives indicates failure or inability to perform or be performed.

Answer the following:

If a person feels worthless they feel

a) like they can’t measure up
b) like they are worthy to be praised

If you feel helpless you..

a) can do something
b) can’t do something

If a man is homeless he

a) has a home
b) has no home

If the shots were painless they...

a) hurt alot
b) didn’t hurt at all

An example of a harmless snake is...

a) garter snake
b) copperhead snake

Today I want you to write a one page paper on the following topic. Use all of your writing rules and do a good job. Your teacher may want you to go back and fix mistakes.

Most people have a place where they feel comfortable and relaxed. Think of a place where you feel comfortable and relaxed. Picture it in your mind. In a composition, describe this place for the reader to imagine what it is like and how you feel there.

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_____

Find the sum : -32+(-18)

a) -14
b) 14
c) -50
d) 50

The cost of three tickets at $3 each and two tickets at $9.50 each is ?

a) $28
b) $38
c) $12.50
d) $34.50

Solve $16=\frac{t}{4}+4$

a) t=80
b) t=192
c) t=60
d) t=48

Which number is to the left of -6 on a number line?

a) -8
b) 0
c) |-6|
d) 7

Solve -13n=52

a) n=-4
b) n=-676
c) n=4
d) n=676

9 x1	2 x2	5 x1	4 x3	0 x0	9 x9	3 x5	8 x5	2 x6	4 x7
5 x6	7 x5	3 x0	8 x8	1 x3	3 x4	5 x9	0 x2	7 x3	4 x 1
2 x3	8 x6	0 x5	6 x1	3 x8	1 x 1	9 x0	2 x8	6 x4	0 x7
7 x7	1 x4	6 x2	4 x5	2 x4	4 x 9	7 x0	1 x2	8 x4	6 x5
3 x2	4 x6	1 x9	5 x7	8 x2	0 x8	4 x2	9 x8	3 x6	5 x5
8 x9	3 x7	9 x7	1 x7	6 x0	0 x3	7 x2	1 x5	7 x8	4 x0
8 x3	5 x2	0 x4	9 x5	6 x7	2 x7	6 x3	5 x4	1 x0	9 x 2
7 x 6	1 x 8	9 x6	4 x 4	5 x3	8 x1	3 x3	4 x8	9 x3	2 x0
8 x0	3 x1	6 x8	0 x9	8 x7	2 x 9	9 x4	0 x1	7 x4	5 x8
0 x6	7 x1	2 x5	6 x9	3 x9	1 x6	5 x0	6 x6	2 x1	7 x9

End of year questions for teacher to save for later in life.

What is something we did this year that you think you will remember for the rest of your life?

_____

_____

What is something you accomplished this year that you are proud of?

_____

_____

What was the most challenging part of this year for you?

_____

_____

What are the three most important things you learned this year?

_____

_____

What is something that was hard for you at the start of the year, but is easy now?

_____

_____

In what area do you feel you made your biggest improvements?

_____

_____

What is your favorite part of the day ? Why?

_____

_____

Of all the books you read this year, which was your favorite? Why?

_____

_____

What is something that your teacher could have done to make this year better?

_____

_____

What are six adjectives that best describe school.

_____

_____

When you consider the rest of your life, what percentage of what you learned this year, do you think will be useful to you?

_____

_____

Any advice you would give to another friend or student about attitude in school?

_____

_____

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_____

amount read_____

week 33

How would you move the decimal point to change 47.5mm to m?

a) 2 places to the right
b) 2 places to the left
c) 3 places to the right
d) 3 places to the left

Evaluate $(2b)^3$ when b=4

a) 512
b) 32
c) 128
d) 216

Find the sum -12+(-18)

a) -6
b) -30
c) 6
d) 30

A rectangle has a perimeter of 28cm and width of 3cm. Use the formula P=2l+2w to find the length of the rectangle.

a) 25cm
b) 17cm
c) 22cm
d) 11cm

Solve 15-4y=3

a) y=3
b) y=4.5
c) y=-3
d) y=-4.5

Write the coordinates of the point 3 units to the left of the y-axis and 4 units up from the x-axis.

a) (-3,-4)
b) (-3,4)
c) (3,-4)
d) (3,4)

Find the answer $4^2 \bullet 3-(5-2)$

a) 0
b) 21
c) 45
d) 41

Choose the most appropriate graph to display a patient's temperature over a period of twelve hours.

a) bar graph
b) pictograph
c) line graph
d) double bar graph

Continue the pattern. 2,9,16,23, ___,____,____

a) 24,26,29
b) 30,37,44
c) 28,33,38
d) 32,42,53

Write the phrase as a variable expression: 7 less than 5n

a) 7-5n
b) 5n-7
c) 7<5n
d) 5n>7

Write a narrative about a person or character who overcomes an obstacle or a difficult situation. The characters must be a person from history or from literature, movies, or television.

Write the lyrics to your favorite song or hymn. Copy them exactly as you should. Then write what the words mean to you.

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5 x6	7 x5	3 x0	8 x8	1 x3	3 x4	5 x9	0 x2	7 x3	4 x 1
2 x3	8 x6	0 x5	6 x1	3 x8	1 x 1	9 x0	2 x8	6 x4	0 x7
7 x7	1 x4	6 x2	4 x5	2 x4	4 x 9	7 x0	1 x2	8 x4	6 x5
3 x2	4 x6	1 x9	5 x7	8 x2	0 x8	4 x2	9 x8	3 x6	5 x5
8 x9	3 x7	9 x7	1 x7	6 x0	0 x3	7 x2	1 x5	7 x8	4 x0
8 x3	5 x2	0 x4	9 x5	6 x7	2 x7	6 x3	5 x4	1 x0	9 x 2
7 x 6	1 x 8	9 x6	4 x 4	5 x3	8 x1	3 x3	4 x8	9 x3	2 x0
8 x0	3 x1	6 x8	0 x9	8 x7	2 x 9	9 x4	0 x1	7 x4	5 x8
0 x6	7 x1	2 x5	6 x9	3 x9	1 x6	5 x0	6 x6	2 x1	7 x9

Simplify x^4x^3

a) x^{12}
b) x^7
c) x^{24}
d) $2x^7$

Find the mean of the data : 10,27,10,15

a) 17
b) 10
c) 12.5
d) 15.5

The temperature increased from -5 degrees F to 12 degrees F in 4 hours. Find the change in temperature.

a) 7 degree F
b) -17 degrees F
c) -7 degrees F
d) 17 degrees F

Ashlyn bought a tennis racket and some tennis balls. What information is needed to find the total amount she spent?

a) the price of the tennis racket
b) the price of each tennis ball
c) the number of tennis balls
d) all of the above

Solve 24=-3t

a) t=-8
b) t=-72
c) t=8
d) t=72

Would you trade your paper books for digital versions in everything?

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How young is too young for an iPhone or equivalent?

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How serious should we take standardized testing?

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How well do you think standardized tests measure your abilities?

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_____

amount read_____

9 x1	2 x2	5 x1	4 x3	0 x0	9 x9	3 x5	8 x5	2 x6	4 x7
5 x6	7 x5	3 x0	8 x8	1 x3	3 x4	5 x9	0 x2	7 x3	4 x 1
2 x3	8 x6	0 x5	6 x1	3 x8	1 x 1	9 x0	2 x8	6 x4	0 x7
7 x7	1 x4	6 x2	4 x5	2 x4	4 x 9	7 x0	1 x2	8 x4	6 x5
3 x2	4 x6	1 x9	5 x7	8 x2	0 x8	4 x2	9 x8	3 x6	5 x5
8 x9	3 x7	9 x7	1 x7	6 x0	0 x3	7 x2	1 x5	7 x8	4 x0
8 x3	5 x2	0 x4	9 x5	6 x7	2 x7	6 x3	5 x4	1 x0	9 x 2
7 x 6	1 x 8	9 x6	4 x 4	5 x3	8 x1	3 x3	4 x8	9 x3	2 x0
8 x0	3 x1	6 x8	0 x9	8 x7	2 x 9	9 x4	0 x1	7 x4	5 x8
0 x6	7 x1	2 x5	6 x9	3 x9	1 x6	5 x0	6 x6	2 x1	7 x9

Write an equation for the situation. Collin has 32 tapes. He has 6 fewer tapes than Evan. How many tapes does Evan have?

a) t+6=32
b) 6t=32
c) t-6=32
d) t+32=6

How many lines of symmetry does an equilateral triangle have?

a) 1
b) 6
c) 3
d) 0

Evaluate q^2-r when q=4 and r =-7

a) 9
b) 11
c) 23
d) 45

Solve -44=4(2x-7)

a) x=-2
b) x=9
c) x=-9
d) x=$-4\frac{5}{8}$

What does $\overleftrightarrow{XW} || \overleftrightarrow{YZ}$ mean?

I. The lines are parallel.
II. The lines are perpendicular.
III.The lines do not intersect.

a) I only
b) I and II
c) I and III
d) II only

Do apps help you or just waste your time?

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Do you spend too much time on smart phones playing “irrelevant games”?

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Should tablet computers become the primary way students learn in class?

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What role will robots play in our future?

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_____

amount read_____

The length of a book is about 230 mm. About how many centimeters long is the book?

a) 0.23
b) 2300
c) 2.3
d) 23

A pictograph shows that 900 people bought tapes and 600 people bought CDs. If 6 symbols represent the people who bought tapes, how many people does one symbol represent?

a) 250
b) 100
c) 150
d) 300

Which figure has no lines of symmetry?

a) regular octagon
b) square
c) scalene triangle
d) rhombus
e) none of the above

Evaluate the difference a-b when a=51.2 and b=3.43

a) 1.69
b) 54.63
c) 47.77
d) 8.55

Find the measure of an angle that is supplementary to an angle with a measure of 83 degrees.

a) 97
b) 277
c) 7
d) 263

9 x1	2 x2	5 x1	4 x3	0 x0	9 x9	3 x5	8 x5	2 x6	4 x7
5 x6	7 x5	3 x0	8 x8	1 x3	3 x4	5 x9	0 x2	7 x3	4 x 1
2 x3	8 x6	0 x5	6 x1	3 x8	1 x 1	9 x0	2 x8	6 x4	0 x7
7 x7	1 x4	6 x2	4 x5	2 x4	4 x 9	7 x0	1 x2	8 x4	6 x5
3 x2	4 x6	1 x9	5 x7	8 x2	0 x8	4 x2	9 x8	3 x6	5 x5
8 x9	3 x7	9 x7	1 x7	6 x0	0 x3	7 x2	1 x5	7 x8	4 x0
8 x3	5 x2	0 x4	9 x5	6 x7	2 x7	6 x3	5 x4	1 x0	9 x 2
7 x 6	1 x 8	9 x6	4 x 4	5 x3	8 x1	3 x3	4 x8	9 x3	2 x0
8 x0	3 x1	6 x8	0 x9	8 x7	2 x 9	9 x4	0 x1	7 x4	5 x8
0 x6	7 x1	2 x5	6 x9	3 x9	1 x6	5 x0	6 x6	2 x1	7 x9

Is school designed more for girls than boys?

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Is there too much pressure on girls to have “perfect bodies”?

_____

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Is it O.K for men and boys to comment on women and girls on the street?

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Do you believe in equal rights for women and men?

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_____

week 34

Solve -4n+8=32

a) n=-10
b) n=-6
c) n=6
d) n=10

Write 5/12 as a decimal.

a) 0.416
b) $0.41\overline{6}$
c) $0.\overline{416}$
d) 0.416^{-}

Simplify $\frac{x^9}{x^3}$

a) x^3
b) x^6
c) x^{12}
d) x^{-6}

At noon, the temperature was -9 degrees C. During the next 5 hours, it fell 4 degrees. What was the temperature at 5:00pm?

a) 5 degree C
b) -5 degree C
c) 13 degree C
d) -13 degree C

Choose the fraction that is not equivalent to ¾

a) 39/52
b) 75/100
c) 21/28
d) 69/96

9 x1	2 x2	5 x1	4 x3	0 x0	9 x9	3 x5	8 x5	2 x6	4 x7
5 x6	7 x5	3 x0	8 x8	1 x3	3 x4	5 x9	0 x2	7 x3	4 x 1
2 x3	8 x6	0 x5	6 x1	3 x8	1 x 1	9 x0	2 x8	6 x4	0 x7
7 x7	1 x4	6 x2	4 x5	2 x4	4 x 9	7 x0	1 x2	8 x4	6 x5
3 x2	4 x6	1 x9	5 x7	8 x2	0 x8	4 x2	9 x8	3 x6	5 x5
8 x9	3 x7	9 x7	1 x7	6 x0	0 x3	7 x2	1 x5	7 x8	4 x0
8 x3	5 x2	0 x4	9 x5	6 x7	2 x7	6 x3	5 x4	1 x0	9 x 2
7 x 6	1 x 8	9 x6	4 x 4	5 x3	8 x1	3 x3	4 x8	9 x3	2 x0
8 x0	3 x1	6 x8	0 x9	8 x7	2 x 9	9 x4	0 x1	7 x4	5 x8
0 x6	7 x1	2 x5	6 x9	3 x9	1 x6	5 x0	6 x6	2 x1	7 x9

If football is so dangerous to players, should we be watching it?

_____

_____

_____

_____

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_____

Are some youth sports too intense?

_____

_____

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Does reality TV promote dangerous stereotypes?

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Does TV capture the diversity of America yet?

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Will musical training make you more successful?

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_____

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_____

amount read_____

Simplify $8a^6 \bullet 5a^2$

a) $3a^4$
b) $13a^8$
c) $40a^{12}$
d) $40a^8$

What is the prime factorization of 80?

a) $8 \bullet 10$
b) $2^4 \bullet 5$
c) $2 \bullet 5 \bullet 8$
d) $5 \bullet 16$

Decide which is the appropriate form of the answer. Vans hold 12 students each. If 5 students plan to travel in vans, how many vans will be needed?

a) decimals
b) dollars
c) fraction
d) whole number

Simplify s^{-6}

a) -6s
b) s-6
c) $\frac{s}{6}$
d) $\frac{1}{s^6}$

Solve 9x +2+4x=41

a) x=3
b) x=2
c) x=507
d) $x=3\frac{4}{13}$

Write 0.0000498 in scientific notation.

a) 4.98×10^{-4}
b) 4.98×10^{4}
c) 4.98×10^{5}
d) 4.98×10^{-5}

On a trip, Evan plans to spend 10 days camping, and then 11 days at a resort. How many weeks long is his trip?

a) 21
b) 7
c) 2
d) 3

An angle that measures 79 degrees is a(n)_____angle.

a) obtuse
b) right
c) acute
d) adjacent

Five rulers cost $1.95. What is the cost of 12 rulers?

a) 4.68
b) 9.75
c) 23.64
d) 3.90

What is 45% of 120?

a) 45
b) 2.6
c) 54
d) 0.45

Should video games be considered a sport?

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_____

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Should stores sell violent video games to minors?

_____

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Can a video game be a work of art?

_____

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Do violent games make people more violent in real life?

_____

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What games would you like to redesign?

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What were the best movies you saw in the past year?

_____

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_____

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5 x6	7 x5	3 x0	8 x8	1 x3	3 x4	5 x9	0 x2	7 x3	4 x 1
2 x3	8 x6	0 x5	6 x1	3 x8	1 x 1	9 x0	2 x8	6 x4	0 x7
7 x7	1 x4	6 x2	4 x5	2 x4	4 x 9	7 x0	1 x2	8 x4	6 x5
3 x2	4 x6	1 x9	5 x7	8 x2	0 x8	4 x2	9 x8	3 x6	5 x5
8 x9	3 x7	9 x7	1 x7	6 x0	0 x3	7 x2	1 x5	7 x8	4 x0
8 x3	5 x2	0 x4	9 x5	6 x7	2 x7	6 x3	5 x4	1 x0	9 x 2
7 x 6	1 x 8	9 x6	4 x 4	5 x3	8 x1	3 x3	4 x8	9 x3	2 x0
8 x0	3 x1	6 x8	0 x9	8 x7	2 x 9	9 x4	0 x1	7 x4	5 x8
0 x6	7 x1	2 x5	6 x9	3 x9	1 x6	5 x0	6 x6	2 x1	7 x9

Which fraction is equivalent to 2/5?

a) 12/15
b) 5/2
c) 24/60
d) 2 1/5

A furniture store manager busy lamps for $60 and sells them for $80. What is the percent of increase?

a) 20%
b) 25%
c) 33.3333%
d) 140%

Which number is most likely to be estimated?

a) an hourly wage of a cashier
b) the postage for a package
c) the number of frames on a roll of film
d) the number of people who visit an airport in one year

Write the ratio in lowest terms 16 in to 4 ft.

a) 4 to 1
b) 16 to 4
c) 1 to 3
d) 1 to 4

Solve $\frac{10}{15}=\frac{x}{36}$

a) x=$\frac{2}{3}$
b) x=15
c) x=12
d) x=24

Should home schoolers be allowed to play public school sports?

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Should the U.S. be spying on its friends?

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Do you trust your government?

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Do rich people get off easier when they break the law?

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Should rich people have to pay more taxes?

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Your final requirement for the day is to read. Choose a book that is at your reading level. There are many book recommendations online or you can check out my blog www.plainandnotsoplain.com. Write the book title and how long you read for today. You should read for a minimum of an hour per day.

_____

amount read_____

Complete 35% of _____is 63?

a) 180
b) 63
c) 55.6
d) 1.8

Write the phrase “the sum of three times a number t and seven” as a variable expression.

a) 3t-7
b) t^3+7
c) 3t+7
d) 3(t+7)

Add -36 + (-17)

a) -53
b) 19
c) 53
d) -19

Write 475% as a fraction or mixed number in lowest terms.

a) 475/100
b) 19/40
c) 47 ½
d) 4 ¾

Simplify$\sqrt{4900}$

a) 60
b) 70
c) 2450
d) 700

Simplify $(7x^2)(2x)$

a) $14x^2$
b) 7
c) 1
d) $14x^3$

Which type of quadrilateral has exactly two lines of symmetry?

a) rhombus
b) square
c) trapezoid
d) none of the above

Solve 15+2q=9

a) q=12
b) q= -3
c) q= -12
d) q= $\frac{9}{17}$

A swimmer, a volleyball player, and a skier are named Amy, Betty, and Collin. Collin's sport only happens outdoors. What can you conclude?

a) Collin is the only skier.
b) Collin is not the swimmer.
c) Amy is not the skier
d) all of the above

Simplify $(36x^2)^0$

a) 1
b) $36x^2$
c) 0
d) $36x^{20}$

Do laws that ban offensive words make the world a better place?

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Do leaders have moral obligations?

_____

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Do you support or oppose the death penalty?

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When should juvenile offenders receive life sentences?

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Is modern culture ruining childhood?

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What can older people learn from your generation?

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_____

amount read_____

week 35

9 x1	2 x2	5 x1	4 x3	0 x0	9 x9	3 x5	8 x5	2 x6	4 x7
5 x6	7 x5	3 x0	8 x8	1 x3	3 x4	5 x9	0 x2	7 x3	4 x 1
2 x3	8 x6	0 x5	6 x1	3 x8	1 x 1	9 x0	2 x8	6 x4	0 x7
7 x7	1 x4	6 x2	4 x5	2 x4	4 x 9	7 x0	1 x2	8 x4	6 x5
3 x2	4 x6	1 x9	5 x7	8 x2	0 x8	4 x2	9 x8	3 x6	5 x5
8 x9	3 x7	9 x7	1 x7	6 x0	0 x3	7 x2	1 x5	7 x8	4 x0
8 x3	5 x2	0 x4	9 x5	6 x7	2 x7	6 x3	5 x4	1 x0	9 x 2
7 x 6	1 x 8	9 x6	4 x 4	5 x3	8 x1	3 x3	4 x8	9 x3	2 x0
8 x0	3 x1	6 x8	0 x9	8 x7	2 x 9	9 x4	0 x1	7 x4	5 x8
0 x6	7 x1	2 x5	6 x9	3 x9	1 x6	5 x0	6 x6	2 x1	7 x9

The radius of a circle is 10 in. What is the area of the circle?

a) $31.4in^2$
b) $100in^2$
c) $62.8in^2$
d) $314in^2$

The lengths of the legs of a right triangle are 0.3cm and 0.4cm. What is the length of the hypotenuse?

a) 0.84 cm
b) 0.5 cm
c) 0.25 cm
d) 0.7 cm

Solve $\frac{x}{7}$= -21

a) x=3
b) x= -3
c) x= -147
d) x= 147

Write in decimal notation $6.35x\ 10^5$

a) $63.5x10^4$
b) 635,000
c) .0000635
d) 63.5

The scale of a statue of a famous citizen is 5 inch:3 ft. The actual person is 6ft tall. Find the height of the statue.

a) 6 inch
b) 2.5 inch
c) 10 inch
d) 3.6 inch

How concerned are you about where your food comes from?

_____

_____

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_____

Is it ethical to eat meat?

_____

_____

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Should government limit the size of sugary drinks?

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Do bystanders have a responsibility to intervene when there is trouble?

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Should you care about the health and safety of those making your clothes?

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Can money buy your happiness?

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_____

amount read_____

Evaluate $x-y^2$ when x=8 and y=7

a) 1
b) 15
c) -41
d) -57

What percent of 120 is 72?

a) 52%
b) 60%
c) 48%
d) $166\frac{2}{3}\%$

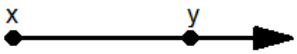
A number cube is rolled. What is the probability of rolling an even number?

a) 0
b) 1
c) ½
d) 1 to 3

Write $\frac{13}{65}$ as a percent.

a) 5%
b) 2%
c) 500%
d) 20%

What is the correct name for this figure?



a) $\overrightarrow{XY}$
b) $\overleftarrow{XY}$
c) $\overrightarrow{YX}$
d) $\overleftarrow{YX}$

9 x1	2 x2	5 x1	4 x3	0 x0	9 x9	3 x5	8 x5	2 x6	4 x7
5 x6	7 x5	3 x0	8 x8	1 x3	3 x4	5 x9	0 x2	7 x3	4 x 1
2 x3	8 x6	0 x5	6 x1	3 x8	1 x 1	9 x0	2 x8	6 x4	0 x7
7 x7	1 x4	6 x2	4 x5	2 x4	4 x 9	7 x0	1 x2	8 x4	6 x5
3 x2	4 x6	1 x9	5 x7	8 x2	0 x8	4 x2	9 x8	3 x6	5 x5
8 x9	3 x7	9 x7	1 x7	6 x0	0 x3	7 x2	1 x5	7 x8	4 x0
8 x3	5 x2	0 x4	9 x5	6 x7	2 x7	6 x3	5 x4	1 x0	9 x 2
7 x 6	1 x 8	9 x6	4 x 4	5 x3	8 x1	3 x3	4 x8	9 x3	2 x0
8 x0	3 x1	6 x8	0 x9	8 x7	2 x 9	9 x4	0 x1	7 x4	5 x8
0 x6	7 x1	2 x5	6 x9	3 x9	1 x6	5 x0	6 x6	2 x1	7 x9

Does buying and accumulating more and more stuff make us happier?

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Are we losing the art of listening?

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Do people complain too much?

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What is more important: talent or hard work?

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Can kindness become cool?

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How important is keeping your cool?

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_____

amount read_____

Jadyn plans to put a wallpaper border around her rectangular bedroom. Which measurement of the room should she find?

a) area
b) diameter
c) circumference
d) perimeter

Simplify $12+4(3-5)^2$

a) 64
b) -1
c) 28
d) -64

Simplify $\frac{15n^2}{n^6}$

a) $15n^8$
b) $15n^4$
c) $\frac{15}{n^3}$
d) $\frac{15}{n^4}$

Simplify -5 (-4)+6(-2)

a) 8
b) -32
c) 20
d) -52

The length of one side of a regular octagon is 15cm. Find the perimeter.

a) 90 cm
b) 120 cm
c) 23 cm
d) cannot be determined

The measure of an angle is 73 degrees. What is the measure of its complement?

a) 17 degrees
b) 107 degrees
c) 27 degrees
d) 117 degrees

There are 3 teachers for every 50 students in a school. the school has 750 students. How many teachers are there at the school?

a) 125
b) 703
c) 50
d) 45

Solve: r-13= -2

a) r=15
b) r=11
c) r=-15
d) r=-11

Identify the figure

a) cone
b) sphere
c) cylinder
d) pyramid

Divide $\frac{3x^4+12x^2-6x}{3x}$

a) x^4+4x^2-2x
b) x^3+4x-2
c) x^3+12x^2-6x
d) $9x^5+36x^3-18x^2$

Is your generation more self-centered than earlier generations?

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Can you be good without God?

_____

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Have curse words become so common they have lost their shock value?

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How important is keeping a clean house?

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Should the private life of famous people be off limits?

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Would you rather work from home or in an office?

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Do you shop at locally owned businesses?

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2 x3	8 x6	0 x5	6 x1	3 x8	1 x 1	9 x0	2 x8	6 x4	0 x7
7 x7	1 x4	6 x2	4 x5	2 x4	4 x 9	7 x0	1 x2	8 x4	6 x5
3 x2	4 x6	1 x9	5 x7	8 x2	0 x8	4 x2	9 x8	3 x6	5 x5
8 x9	3 x7	9 x7	1 x7	6 x0	0 x3	7 x2	1 x5	7 x8	4 x0
8 x3	5 x2	0 x4	9 x5	6 x7	2 x7	6 x3	5 x4	1 x0	9 x 2
7 x 6	1 x 8	9 x6	4 x 4	5 x3	8 x1	3 x3	4 x8	9 x3	2 x0
8 x0	3 x1	6 x8	0 x9	8 x7	2 x 9	9 x4	0 x1	7 x4	5 x8
0 x6	7 x1	2 x5	6 x9	3 x9	1 x6	5 x0	6 x6	2 x1	7 x9

Find the product (m+7)(m-4)

a) m^2-28
b) m^2+3m-28
c) m^2-11m-28
d) m^2+28

Find the prime factorization of 240.

a) $2^4 \bullet 3 \bullet 5$
b) 15•16
c) $2^3 \bullet 15$
d) 2•3•5•8

Should scientists try to help people beat old age so we can live longer lives?

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Given unlimited resources, what scientific or medical problems would you investigate?

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When is it O.K. to replace human limbs with technology?

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How about write a thank you letter to your teacher for the year that you had with them. Write it properly.

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_____

amount read_____

Here is a list of 21 weeks' worth of vocabulary words that every 8th grader should know. I would recommend copying them onto index cards at the beginning of your week. Practice saying them, learning what they are, and being able to say what they mean to your teacher by the end of each week.

Week 1	Week 2	Week 3	Week 4	Week 5
ferocious	flannel	galloping	glucose	gullible
fiasco	flippant	gingivitis	gravel	harmonica
fictitious	florescent	giraffe	goalie	gumption
fierce	forfeit	generosity	gorilla	gyrate
finance	foundation	genocide	gossip	habitat
finesse	fragile	genre	graffiti	hallucination
flammable	fragrant	glossary	grammar	harass
flamingo	franchise	glimpse	gravitate	hepatitis
flambeau	frugal	gladiator	grievous	hemisphere
fission	fugitive	gigantic	groceries	heinous
fiscal	furniture	gesture	guardian	headache
finite	gallery	geometric	guitar	havoc

Week 6	Week 7	Week 8	Week 9	Week 10
heritage	horizontal	hibernate	horticulture	hierarchy
hospitality	hitchhike	hostile	humane	hoist
holocaust	humiliation	hundredth	hygienist	hurricane
hypothetical	hybrid	identical	hydrant	idiosyncratically
hydraulic	ignorance	hydrogen	illicit	illumination
imputable	illusion	impair	illustrate	impediment
imaginary	imperative	immature	impetus	immortal
implausible	impossible	incumbent	impoverish	independence
inauguration	indicate	incense	indulgent	incognito
inferior	increment	ingenious	initials	insolence
initiative	intangible	innermost	intercept	innocuous
interior	inseparable	internal	insinuate	interrupt

Week 11	Week 12	Week 13	Week 14	Week 15
intrepid	jambalaya	irrevocable	janitor	irritate
jealously	ivory	jellyfish	jackknife	jeopardize
jaguar	journal	journalism	junket	journey
jurisdiction	judicial	justice	judiciary	justifiable
juggler	juvenile	jungle	kaleidoscope	keepsake
kingdom	kennel	kiwi	kernel	knapsack
khaki	knave	kidnap	knight	kindness
lackadaisical	lament	latitude	language	laughter
lantern	lavender	lapidary	leaky	larceny
legacy	larynx	legible	lemonade	liable
lenient	liaison	lethal	libel	leverage
library	levity	lien	liability	lieutenant

Week 16	Week 17	Week 18	Week 19	Week 20
limb	livid	limousine	location	linear
lodging	linoleum	longevity	litany	loveliness
livelihood	luau	ludicrous	maintenance	luncheon
malice	luscious	malign	macaroni	mallet
mademoiselle	managerial	maimed	mandatory	manifesto
matinee	marsupial	matriarch	martial	matrix
massacre	mattress	massage	maverick	mathematician
mayonnaise	meadow	measles	medicine	mediocre
Mediterranean	menace	monotonous	monocle	molecule
mitigate	miniature	mentor	mortgage	narrative
nausea	nebulous	necessary	nectarine	neon
nemesis	negotiable	negligent	neglect	negative

Week 21
nepotism
neutral
neutralize
nickelodeon
nightmare
nitrogen
nuclear
nostril
nostalgia
nondescript
nonchalant
nominee