

Grade 4 Math Checklist

- Read and write large numbers up to the hundred thousands
- Understand and use place value up to 1,000,000
- Add and subtract numbers with carrying and borrowing
- Memorize multiplication facts up to 12
- Multiply two-digit numbers by one-digit numbers
- Begin long division with one-digit divisors
- Understand and compare fractions ($\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$, etc.)
- Read and use basic measurements: length, weight, volume
- Tell time to the nearest minute and understand elapsed time
- Solve multi-step word problems using all operations

Grade 5 Math Checklist

- Read and write numbers into the millions
- Understand decimal place value and relate to money
- Add, subtract, multiply, and divide decimals
- Master all multiplication and division facts
- Multiply two-digit by two-digit numbers
- Divide by two-digit divisors using long division
- Add and subtract fractions with like denominators
- Convert between units of measure (inches to feet, etc.)
- Graph points on a coordinate plane
- Solve real-life problems using estimation and rounding

Grade 6 Math Checklist

- Read, write, and compare numbers up to the trillions
- Work with Roman numerals up to M (1,000)
- Perform operations with multi-digit whole numbers
- Add, subtract, multiply, and divide fractions and decimals
- Understand and use ratios, rates, and proportions
- Work with percent problems and find percentages

- Measure and convert units in real-life scenarios
- Understand area, perimeter, and volume of shapes
- Graph and interpret bar, line, and pie graphs
- Solve problems using equations and simple formulas

Grade 7 Math Checklist

- Reinforce place value and use Venn diagrams
- Ensure fluency in all four operations with all number types
- Understand and apply number properties (commutative, etc.)
- Use ratios and proportions to compare and solve problems
- Work with all types of percent problems (find %, base, part)
- Measure accurately and convert between units
- Practice geometry: triangles, quadrilaterals, angles
- Interpret and draw graphs and charts
- Use formulas in real-life scenarios
- Approach problem solving with flexible thinking

Grade 8 Math Checklist

- Review all operations with whole numbers, fractions, decimals
- Work with exponents and base-10 systems
- Understand and solve percent problems in real-life situations
- Use metric and customary systems for measurement
- Study surface area and volume of 3D shapes
- Graph and analyze real-world data
- Solve simple algebraic equations
- Explore probability, range, mean, and data sets
- Learn about business math (interest, discount, profit)
- Apply math to shopping, saving, budgeting