

Pre-Algebra

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Students who are ready for Pre-Algebra:

- Can easily add, subtract, multiply, and divide multiple-digit whole numbers
- Can proficiently add, subtract, multiply, and divide fractions
- Can proficiently add, subtract, multiply, and divide mixed numbers
- Can proficiently add, subtract, multiply, and divide decimal numbers
- Can convert between a fraction, decimal, and percent
- Can determine and apply the operation(s) necessary to solve a word problem with whole numbers, fractions, or decimals

Concepts and Skills learned in the Pre-Algebra curriculum:

- Negative Numbers: Addition
- Negative Numbers: Subtraction
- Negative Numbers: Multiplication
- Negative Numbers: Division
- Whole Numbers
- Integers
- Number Line
- Exponents
- Place Value
- Expanded and Exponential Notation
- Negative Numbers: Exponents
- Roots and Radicals
- Solve for an Unknown with Additive Inverse
- Pythagorean Theorem
- Associative Property
- Commutative Property
- Distributive Property
- Solve for an Unknown with Multiplicative Inverse
- Solve for an Unknown with Order of Operations
- Surface Area of a Solid
- Transform Celsius to Fahrenheit
- Transform Fahrenheit to Celsius
- Absolute Value
- Ratio and Proportion
- Similar Polygons
- Prime Factorization
- Least Common Multiple
- Greatest Common Factor
- Polynomials: Addition
- Volume of a Cylinder
- Polynomials: Multiplication
- Adding and Subtracting Time
- Same Difference Theorem
- Volume of a Cone and a Pyramid
- Military Time: Addition and Subtraction
- Measurement: Addition and Subtraction
- Irrational Numbers
- Square Root Formula
- Real Numbers