**Grade 7**

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| --- | --- | --- | --- | --- |
| **Number and Number Sense** | | | | |
| Exponent | Negative exponent | Compare | Order | Scientific notation |
| Percent | Factor | Rational Number | Proper fraction | Improper fraction |
| Mixed number | Perfect square | Square root | Absolute value |  |

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| **Computation and Estimation** | | | | |
| Rational number | Terminating decimal | Repeating decimal | Proper fraction | Improper fraction |
| Mixed number | Whole number | Integer | Decimal | Percent |
| Proportion | Ratio | Equivalent ratios | Ratio table | Means |
| Extremes | Benchmark | Tips | Tax | Discount |
| Weight | Mass | Length (feet/miles) | Weight (ounces/pounds; pounds/kilograms) | Volume (cups/fluid ounces; gallons/liters) |
| Conversion factor |  |  |  |  |

\*NOTE: Students should apply rules but not required to use the terms.

\*\*NOTE: Key word samples

page 1 of 3

**Grade 7 (continued)**

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| **Measurement and Geometry** | | | | |
| Polygon | Polyhedron | Rectangular prism | Face | Vertex |
| Edge | Cylinder | Solid figure | Base | Right circular cylinder |
| Surface area | Square units | Area | Volume | Three-dimensional figure |
| Height | Length | Width | Circle | Circumference |
| Pi | Similarity | Similar polygons | Corresponding | Congruent polygons |
| Size | Shape | Congruent sides | Congruent angles | Quadrilateral |
| Polygon | Parallel | Line of symmetry | Diagonal | Bisect |
| Mirror image | Parallelogram | Rectangle | Rhombi | Square |
| Right angle | Regular polygon | Trapezoid | Isosceles trapezoid | Transformation |
| Preimage | Translation | Reflection | Image | Line of reflection |

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| **Probability and Statistics** | | | | |
| Probability | Outcome | Event | Possible favorable outcomes | Total number of outcomes |
| Experimental probability | Trials | Theoretical probability | Law of Large Numbers | Histogram |
| Observation | Inference | Class/bin | Title | Label |
| Intervals | Bar graph | Frequency (data elements) | Categorical data | Numerical data |
| Line plot | Number line | Spread of data | Clusters | Data points |
| Range | Mean | Median | Mode | Circle graph |
| Part/whole | Stem and leaf | Distribution of data |  |  |

page 2 of 3

**Grade 7 (continued)**

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| --- | --- | --- | --- | --- |
| **Patterns, Functions, and Algebra** | | | | |
| Origin | Independent variable | Dependent variable | Proportional relationship | Additive relationship |
| Ordered pair | y-intercept | Slope (rate of change) | Multiplicative relationship | Coordinate plane |
| Linear equation | Algebraic expression | Replacement value | Variable | Order of operations |
| Commutative property of addition | Commutative property of multiplication | Associative property of addition | Associative property of multiplication | Distributive property |
| Additive identity | Multiplicative identity | Additive inverse | Multiplicative inverse | Multiplicative property of zero |
| Undefined | Substitution property | Two-step equation | Variable expression | Verbal expression |
| Algebraic expression | Verbal sentence | Algebraic equation | Inequality | One-step inequality |
| Two-step inequality | Number line | Addition property of inequality | Subtraction property of inequality | Multiplication property of inequality |
| Division property of inequality |  |  |  |  |

page 3 of 3