

# Simple Solutions

## Common Core Mathematics 6 Topic Guide

<b><u>Topic</u></b>	<b><u>Lesson #</u></b>	<b><u>CCSS</u></b>
Fluently Divide Multi-Digit Numbers .....	1 .....	6.NS.2
Fluently Add, Subtract, Multiply, and Divide Multi-Digit Decimals .....	1 .....	6.NS.3
Find the Greatest Common Factor of Two Whole Numbers .....	2 .....	6.NS.4
Use Ratio Language to Describe a Ratio Relationship Between Two Quantities .....	3 .....	6.RP.1
Use Rate Language in the Context of a Ratio Relationship.....	5 .....	6.RP.2
Find the Area of Right Triangles, other Triangles, Special Quadrilaterals, and Polygons .....	7 .....	6.G.1
Recognize a Statistical Question as one that Anticipates Variability in the Data .....	9 .....	6.SP.1
Find the Least Common Multiple of Two Whole Numbers .....	10.....	6.NS.4
Solve Word Problems Involving Division of Fractions by Fractions.....	11 .....	6.NS.1
Make Tables of Equivalent Ratios and Find Missing Values in the Tables.....	13 .....	6.RP.3
Summarize Data by Finding the Mean .....	14.....	6.SP.5
Write and Evaluate Numerical Expressions Involving Whole Number Exponents.....	17 .....	6.EE.1
Solve Unit Rate Problems Involving Unit Pricing and Constant Speed.....	21 .....	6.RP.3
Write, Read, and Evaluate Expressions in Which Letters Stand for Numbers .....	25.....	6.EE.2
Solve Problems Involving Finding the Whole, Given a Part and the Percent.....	27 .....	6.RP.3
Use Ratio Reasoning to Convert Measurement Units .....	32.....	6.RP.3
Identify Parts of an Expression.....	32.....	6.EE.2
Recognize Measure of Center .....	35.....	6.SP.3
Summarize Data by Median, Mean or Range .....	39.....	6.SP.5
Apply the Properties of Operations to Generate Equivalent Expressions .....	47.....	6.EE.3

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Understand that a Set of Data Collected to Answer a Statistical Question has a Distribution which can be Described by its Center, Spread, and Overall Shape.....	50.....	6.SP.2
Display Numerical Data in Plots on a Number Line, Including Dot Plots, Histograms, and Box Plots.....	55.....	6.SP.4
Identify when Two Expressions are Equivalent.....	62.....	6.EE.4
Apply the Formulas $V = lwh$ and $V = bh$ to Find Volumes of Right Rectangular Prisms with Fractional Edge Lengths.....	67.....	6.G.2
Understand that Positive and Negative Numbers Are Used Together to Describe Quantities Having Opposite Directions or Values.....	73.....	6.NS.5
Use Nets to Find Surface Area.....	75.....	6.G.4
Recognize Opposite Signs of Numbers as Indicating Locations in Quadrants of the Coordinate Plane.....	78.....	6.NS.6
Interpret Absolute Value as Magnitude for a Positive or Negative Quantity in a Real-World Situation.....	81.....	6.NS.7
Interpret Statements of Inequality as Statements About the Relative Position of Two Numbers on a Number Line Diagram.....	82.....	6.NS.7
Use Variables to Represent Numbers and Write Expressions.....	88.....	6.EE.6
Use Substitution to Determine whether a Given Number in a Specified Set Makes an Equation or Inequality True.....	91.....	6.EE.5
Find and Position Integers and other Rational Numbers on a Horizontal or Vertical Number Line Diagram.....	93.....	6.NS.6
Solve Real World and Mathematical Problems by Writing and Solving Equations of the Form $x + p = q$ and $px = q$ when $p$ , $q$ , and $x$ are all Nonnegative Rational Numbers.....	97.....	6.EE.7
Use Variables to Represent Two Quantities in a Real-World Problem that Change in Relationship to One Another and Write an Equation to Express One Quantity.....	106.....	6.EE.9
Write an Inequality of the Form $x > c$ or $x < c$ to Represent a Condition in a Real-World Problem; Represent these Solutions on Number Line Diagrams.....	109.....	6.EE.8

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Understand Signs of Numbers in Ordered Pairs as Indicating Locations in Quadrants of the Coordinate Plane.....	111.....	6.NS.6
Solve Real-World Problems by Graphing Points in all Four Quadrants of a Coordinate Plane.....	112.....	6.NS.8
Draw Polygons in the Coordinate Plane and use Coordinates to find the Length of a side Joining Points with the same First or Second Coordinate .....	115.....	6.G.3