

Simple Solutions

Standards-Based Mathematics 7

Topic Guide

<u>Topic</u>	<u>Lesson #</u>	<u>Standard</u>
Apply Properties of Operations as Strategies to Add, Subtract, Factor, and Expand Linear Expressions with Rational Coefficients.....	1	7.EE.1
Apply Properties of Operations as Strategies to Add and Subtract Rational Numbers.....	4	7.NS.1
Compute Unit Rates Associated with Ratios of Fractions, Including Ratios of Lengths, Areas, and Other Quantities Measured in Like or Different Units	8	7.RP.1
Solve Real-World Problems Involving Area, Volume, and Surface Area of Two- and Three-Dimensional Objects Composed of Triangles, Quadrilaterals, Polygons, Cubes, and Right Prisms	13	7.G.6
Multiply and Divide Rational Numbers Applying Properties of Operations	17	7.NS.2
Identify the Constant of Proportionality in Tables, Graphs, Equations, Diagrams, and Verbal Descriptions	21	7.RP.2
Solve Real-World Problems Involving the Four Operations with Rational Numbers.....	24	7.NS.3
Use Proportional Relationships to Solve Multistep Ratio and Percent Problems	30	7.RP.3
Know the Formulas for the Area and Circumference of a Circle and Use Them to Solve Problems.....	37	7.G.4
Understand that Statistics Can Be Used to Gain Information About a Population by Examining a Sample of the Population.....	40	7.SP.1
Understand that Rewriting an Expression in Different Forms in a Problem Context Can Show How the Quantities in it are Related.....	47	7.EE.2
Understand that the Probability of a Chance Event is a Number Between 0 and 1 that Expresses the Likelihood of the Event Occurring	54	7.SP.5
Solve Multistep Real-Life Problems with Positive and Negative Rational Numbers in any Form (Whole Numbers, Fractions, and Decimals)	61	7.EE.3
Construct Triangles from Three Measures of Angles or Sides	68	7.G.2
Use Data From a Random Sample to Draw Inferences About a Population With an Unknown Characteristic of Interest.....	71	7.SP.2
Convert a Rational Number to a Decimal Using Long Division.....	73	7.NS.2

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<u>Topic</u>	<u>Lesson #</u>	<u>Standard</u>
Use Facts About Supplementary, Complementary, Vertical, and Adjacent Angles in Multistep Problems	74	7.G.5
Solve Word Problems Leading to Equations of the Form $px + q = r$ and $p(x + q) = r$, Where p , q , and r are Specific Rational Numbers.....	81	7.EE.4
Understand that the Probability of a Compound Event is the Fraction of Outcomes in the Sample Space for Which the Compound Event Occurs....	90	7.SP.8
Solve Problems Involving Scale Drawings of Geometric Figures	99	7.G.1
Informally Assess the Degree of Overlap of Two Data Distributions With Similar Variabilities, Measuring the Difference Between the Centers by Expressing it as a Multiple of a Measure of Variability	103	7.SP.3
Use Measures of Center and Measures of Variability for Numerical Data from Random Samples to Draw Informal Comparative Inferences About Two Populations	107	7.SP.4
Solve Word Problems Leading to Inequalities of the Form $px + q > r$ or $px + q < r$, where p , q , and r are Specific Rational Numbers. Graph the Solution Set.....	110	7.EE.4
Approximate the Probability of a Chance Event by Collecting Data on the Chance Process that Produces it and Observing its Long-Run Relative Frequency and Predict the Approximate Relative Frequency Given the Probability	110	7.SP.6
Develop a Uniform Probability Model by Assigning Equal Probability to All Outcomes and Use the Model to Determine Probabilities of Events	115	7.SP.7
Describe the Two-Dimensional Figures that Result from Slicing Three-Dimensional Figures	120	7.G.3