

Math 7 Study Guide

2018-2019

The following is a list of each chapter, along with subtopics for each. All of these topics will be considered for the final exam. Each chapter also has a study guide review section. The pages for the study guides are listed as well.

Chapter Number and Name	Subtopics	Study Guide Review Pages
Chapter 1: Algebraic Reasoning	<ul style="list-style-type: none">• Order of operations• Properties of numbers• Variables and algebraic expressions• Simplifying algebraic expressions	Pages 34-36
Chapter 2: Integers and Rational Numbers	<ul style="list-style-type: none">• Integers• Adding and subtracting integers• Additive inverses and absolute value• Multiplying and dividing integers• Equivalent fractions and decimals• Comparing and ordering rational numbers	Pages 90-92
Chapter 3: Applying Rational Numbers	<ul style="list-style-type: none">• Adding and subtracting decimals• Multiplying and dividing decimals• Solving equations containing decimals• Adding and subtracting fractions• Multiplying and dividing fractions• Solving equations containing fractions	Pages 138-140
Chapter 4: Proportional Relationships	<ul style="list-style-type: none">• Rates• Solving proportions• Similar figures and proportions• Scale drawings and scale models	Pages 184-186
Chapter 5: Graphs	<ul style="list-style-type: none">• The coordinate plane• Interpreting graphs• Slope and rates of change• Direct variation	Pages 220-222

Chapter 6: Percents	<ul style="list-style-type: none"> • Fractions, decimals, and percents • Percent of change • Simple interest 	Pages 264-266
Chapter 7: Collecting, Displaying, and Analyzing Data	<ul style="list-style-type: none"> • Mean, median, mode, and range • Box-and-whisker plots • Populations and samples 	Pages 298-300
Chapter 8: Geometric Figures	<ul style="list-style-type: none"> • Classifying angles • Line and angle relationships • Angles in polygons • Congruent figures 	Pages 348-350
Chapter 9: Measurement and Geometry	<ul style="list-style-type: none"> • Perimeter and circumference • Area of circles • Area of irregular figures • Surface area of prisms and cylinders 	Pages 396-398
Chapter 10: Probability	<ul style="list-style-type: none"> • Probability • Experimental probability • Sample spaces • Theoretical probability • Probability of independent and dependent events 	Pages 454-456
Chapter 11: Multi-Step Equations and Inequalities	<ul style="list-style-type: none"> • Solving two-step equations • Solving multi-step equations • Solving equations with variables on both sides • Inequalities • Solving inequalities 	Pages 504-506