



Grade 7

Spirals

Tracking Document

SpiralEd Solutions

PO Box 23942

Waco, TX 76702

spiraledsolutions.com

7.2(A)	extend previous knowledge of sets and subsets using a visual representation to describe relationships between sets of rational numbers									
		S1Q1	S1Q2	S8Q3	S11Q1	S17Q1				
		S26Q2	S81Q1							
7.3(A)	add, subtract, multiply, and divide rational numbers fluently									
		S1Q3	S2Q1	S8Q2	S11Q2	S17Q2				
		S45Q3	S81Q2							
7.3(B)	apply and extend previous understandings of operations to solve problems using addition, subtraction, multiplication, and division of rational numbers									
		S2Q2	S2Q3	S3Q1	S3Q2	S9Q1				
		S11Q3	S12Q1	S12Q2	S17Q3	S18Q1				
		S24Q1	S25Q1	S33Q3	S54Q3	S77Q2				
		S81Q3	S82Q1							
7.4(A)	represent constant rates of change in mathematical and real-world problems given pictorial, tabular, verbal, numeric, graphical, and algebraic representations, including $d = rt$									
		S3Q3	S4Q1	S4Q2	S4Q3	S9Q2				
		S18Q2	S18Q3	S29Q1	S31Q3	S39Q3				
		S56Q3	S82Q2	S82Q3						
7.4(B)	calculate unit rates from rates in mathematical and real-world problems									
		S5Q1	S5Q2	S9Q3	S12Q3	S19Q1				
		S24Q2								

7.4(C)	determine the constant of proportionality ($k = y/x$) within mathematical and real-world problems									
		S5Q3	S6Q1	S10Q1	S13Q1	S19Q2				
		S24Q3	S83Q1							
7.4(D)	solve problems involving ratios, rates, and percents, including multi-step problems involving percent increase and percent decrease, and financial literacy problems									
		S6Q2	S6Q3	S7Q1	S7Q2	S10Q2				
		S13Q2	S13Q3	S19Q3	S20Q1	S25Q2				
		S25Q3	S34Q1	S60Q1	S83Q2	S83Q3				
7.4(E)	convert between measurement systems, including the use of proportions and the use of unit rates									
		S7Q3	S8Q1	S10Q3	S14Q1	S20Q2				
		S25Q1	S49Q1	S84Q1						
7.5(A)	generalize the critical attributes of similarity, including ratios within and between similar shapes									
		S14Q2	S14Q3	S20Q3	S21Q1	S32Q2				
		S75Q1	S84Q2							
7.5(B)	describe π as the ratio of the circumference of a circle to its diameter									
		S14Q1	S15Q2	S21Q2	S32Q1	S36Q2				
		S68Q1	S84Q3							
7.5(C)	solve mathematical and real-world problems involving similar shape and scale drawings									
		S15Q3	S16Q1	S16Q2	S16Q3	S21Q3				

7.5(C)	(cont.)	S22Q1		S22Q2		S32Q3		S3Q1		S33Q2	
		S41Q1		S53Q1		S85Q1		S85Q2		S98Q1	
7.6(A)	represent sample spaces for simple and compound events using lists and tree diagrams										
		S23Q2		S23Q3		S34Q3		S41Q3		S86Q1	
7.6(B)	select and use different simulations to represent simple and compound events with and without technology (not tested)										
7.6(C)	make predictions and determine solutions using experimental data for simple and compound events										
		S27Q2		S27Q3		S27Q2		S27Q3		S35Q1	
		S35Q2		S43Q1		S86Q2					
7.6(D)	make predictions and determine solutions using theoretical probability for simple and compound events										
		S28Q1		S28Q2		S35Q3		S36Q1		S46Q2	
		S56Q2		S86Q3							
7.6(E)	find the probabilities of a simple event and its complement and describe the relationship between the two										
		S28Q3		S29Q2		S36Q3		S37Q1		S49Q3	
		S57Q1		S87Q1							
7.6(F)	use data from a random sample to make inferences about a population (not tested)										

[illegible]

7.8(B)	explain verbally and symbolically the relationship between the volume of a triangular prism and a triangular pyramid having both congruent bases and heights and connect that relationship to the formulas (not tested)										
7.8(C)	use models to determine the approximate formulas for the circumference and area of a circle and connect the models to the actual formulas (not tested)										
7.9(A)	solve problems involving the volume of rectangular prisms, triangular prisms, rectangular pyramids, and triangular pyramids										
		S64Q2	S64Q3	S93Q2	S93Q3	S110Q2					
		S110Q3	S114Q3	S115Q1	S115Q3	S116Q2					
		S117Q2	S118Q2								
7.9(B)	determine the circumference and area of circles										
		S50Q2	S51Q1	S51Q3	S59Q2	S59Q3					
		S60Q2	S91Q3	S92Q1	S107Q1	S107Q2					
		S107Q3	S111Q2	S113Q1	S116Q3	S119Q1					
7.9(C)	determine the area of composite figures containing combinations of rectangles, squares, parallelograms, trapezoids, triangles, semicircles, and quarter circles										
		S52Q2	S52Q3	S60Q3	S92Q2	S92Q3					
		S109Q1	S109Q2	S109Q3	S111Q1	S112Q1					
		S113Q2	S116Q1	S118Q1	S119Q3	S120Q3					

7.9(D)	solve problems involving the lateral and total surface area of a rectangular prism, rectangular pyramid, triangular prism, and triangular pyramid by determining the area of the shape's net									
		S63Q2	S63Q3	S65Q1	S65Q3	S94Q1				
		S100Q3	S111Q3	S112Q2	S120Q2					
7.10(A)	write one-variable, two-step equations and inequalities to represent constraints or conditions within problems									
		S40Q1	S40Q2	S44Q1	S44Q2	S54Q1				
		S62Q3	S65Q2	S89Q2	S89Q3					
7.10(B)	represent solutions for one-variable, two-step equations and inequalities on number lines									
		S40Q3	S44Q3	S45Q1	S50Q3	S54Q2				
		S67Q1	S90Q1	S98Q3						
7.10(C)	write a corresponding real-world problem given a one-variable, two-step equation or inequality									
		S45Q2	S46Q3	S47Q1	S55Q2	S55Q3				
		S72Q2	S90Q2	S99Q1						
7.11(A)	model and solve one-variable, two-step equations and inequalities									
		S47Q2	S47Q3	S48Q3	S56Q1	S57Q3				
		S58Q1	S90Q3	S91Q1	S104Q3	S105Q3				
		S108Q1	S108Q2	S108Q3	S115Q2	S115Q3				
7.11(B)	determine if the given value(s) make(s) one-variable, two-step equations and inequalities true									
		S49Q2	S50Q1	S58Q2	S59Q1	S63Q1				
		S76Q3	S91Q2	S99Q2						

7.11(C)	write and solve equations using geometry concepts, including the sum of the angles in a triangle, and angle relationships									
		S62Q1	S64Q1	S68Q3	S93Q1	S99Q3				
		S100Q1	S100Q2							
7.12(A)	compare two groups of numeric data using comparative dot plots or box plots by comparing their shapes, centers, and spreads									
		S67Q2	S67Q3	S68Q1	S78Q3	S95Q1				
		S95Q2	S119Q2	S120Q1						
7.12(B)	use data from a random sample to make inferences about a population									
		S69Q1	S70Q2	S71Q1	S71Q2	S72Q1				
		S95Q3	S113Q3							
7.12(C)	compare two populations based on data in random samples from these populations, including informal comparative inferences about differences between the two populations									
		S69Q2	S70Q3	S72Q3	S73Q1	S73Q2				
		S96Q1	S114Q2							
7.13(A)	calculate the sales tax for a given purchase and calculate income tax for earned wages									
		S69Q1	S74Q1	S74Q2	S74Q3	S96Q2				
		S101Q1	S101Q2							

7.13(B)	identify the components of a personal budget, including income; planned savings for college, retirement, and emergencies; taxes; and fixed and variable expenses, and calculate what percentage each category comprises of the total budget	S77Q1 S103Q2	S77Q2	S78Q1	S97Q1	S103Q1
7.13(C)	rewrite polynomial expressions of degree one and degree two in equivalent forms using the distributive property;	S79Q1 S104Q2	S79Q2	S79Q3	S97Q2	S104Q1
7.13(D)	use a family budget estimator to determine the minimum household budget and average hourly wage needed for a family to meet its basic needs in the student's city or another large city nearby	S80Q1 S105Q2	S80Q2	S80Q3	S97Q3	S105Q1
7.13(E)	calculate and compare simple interest and compound interest earnings	S22Q3 S71Q3	S23Q1 S85Q3	S34Q2	S41Q2	S53Q3
7.13(F)	analyze and compare monetary incentives, including sales, rebates, and coupons	S75Q2 S102Q2	S75Q3	S76Q1	S96Q3	S102Q1

