SpiralEd Solutions

Grade 6 Spirals

Tracking Document

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6.2(A)	classify whole numbers, integers, and rational numbers using a visual representation such as a Venn diagram to describe relationships between sets of numbers										
		S2Q2		S2Q3		S52Q3		S63Q3		S81Q3	
6.2(B)	identify a number, its opposite, and its absolute value										
		S1Q1		S9Q2		S43Q1		S68Q1		S81Q1	
6.2(C)	locate, compare, and order integers and rational numbers using a number line										
		S1Q3		S2Q1		S25Q2		S74Q2		S81Q2	
6.2(D)	order a set of rational numbers arising from mathematical and real-world contexts										
		S3Q2		S4Q2		S4Q3		S7Q2		S13Q2	
		S22Q2		S24Q1		S29Q1		S30Q2		S82Q1	
		S105Q1		S105Q2		S108Q2					
6.2(E)	extend representations for division to include fraction notation such as a/b represents the same number as $a \div b$ where $b \neq 0$										
		S3Q3		S4Q1		S5Q1		S5Q2		S5Q3	
		S36Q3		S79Q3		S82Q2					
6.3(A)	recognize that dividing by a rational number and multiplying by its reciprocal result in equivalent values										
		S8Q1		S8Q2		S12Q2		S70Q2		S83Q3	
6.3(B)	determine, with and without computation, whether a quantity is increased or decreased when multiplied by a fraction, including values greater than or less than one										

6.3(C)	represent integer operations with concrete models and connect the actions with the models to standardized algorithms					
		S6Q1	S6Q2	S20Q3	S49Q2	S82Q3
6.3(D)	add, subtract, multiply, and divide integers fluently					
		S6Q3	S7Q1	S9Q3	S10Q1	S14Q2
		S18Q3	S23Q2	S31Q2	S32Q3	S83Q2
		S107Q1				
6.3(E)	multiply and divide positive rational numbers fluently					
		S7Q3	S13Q3	S19Q1	S20Q2	S22Q3
		S23Q1	S29Q2	S29Q3	S83Q1	
6.4(A)	compare two rules verbally, numerically, graphically, and symbolically in the form of $y = ax$ or $y = x + a$ in order to differentiate between additive and multiplicative relationships					
		S14Q1	S14Q3	S17Q2	S37Q1	S85Q2
6.4(B)	apply qualitative and quantitative reasoning to solve prediction and comparison of real-world problems involving ratios and rates					
		S12Q1	S12Q3	S13Q1	S17Q3	S17Q2
		S25Q1	S27Q2	S28Q3	S30Q1	S32Q2
		S40Q3	S85Q1	S108Q1		

6.4(C)	give examples of ratios as multiplicative comparisons of two quantities describing the same attribute									
		S10Q2		S10Q3		S15Q1		S76Q1		S84Q2
6.4(D)	give examples of rates as the comparison by division of two quantities having different attributes, including rates as quotients									
		S11Q1		S11Q2		S11Q3		S66Q3		S84Q3
6.4(E)	represent ratios and percents with concrete models, fractions, and decimals									
		S21Q1		S21Q2		S23Q3		S72Q1		S86Q1
6.4(F)	represent benchmark fractions and percents such as 1%, 10%, 25%, 33 1/3%, and multiples of these values using 10 by 10 grids, strip diagrams, number lines, and numbers									
		S21Q3		S22Q1		S24Q2		S34Q2		S86Q2
6.4(G)	generate equivalent forms of fractions, decimals, and percents using real-world problems, including problems that involve money									
		S31Q1		S35Q2		S35Q3		S41Q1		S41Q2
		S46Q1		S48Q2		S55Q3		S57Q1		S57Q2
		S67Q2		S86Q3						
6.4(H)	convert units within a measurement system, including the use of proportions and unit rates									
		S17Q1		S17Q3		S18Q1		S18Q2		S19Q2
		S19Q3		S120Q1		S25Q3		S26Q2		S35Q1
		S45Q2								

6.5(A)	represent mathematical and real-world problems involving ratios and rates using scale factors, tables, graphs, and proportions	S16Q2		S16Q3		S17Q1		S42Q3		S68Q2
6.5(B)	solve real-world problems to find the whole given a part and the percent, to find the part given the whole and the percent, and to find the percent given the part and the whole, including the use of concrete and pictorial models	S36Q1		S36Q2		S37Q2		S41Q3		S42Q1
		S45Q3		S50Q2		S57Q3		S58Q1		S59Q2
		S59Q3		S87Q1						
6.5(C)	use equivalent fractions, decimals, and percents to show equal parts of the same whole	S1Q1		S3Q1		S33Q1		S85Q3		S96Q3S
6.6(A)	identify independent and dependent quantities from tables and graphs	S52Q1		S52Q2		S56Q3		S69Q3		S90Q3
6.6(B)	write an equation that represents the relationship between independent and dependent quantities from a table	S53Q1		S54Q1		S54Q2		S62Q2		s91q1
6.6(C)	represent a given situation using verbal descriptions, tables, graphs, and equations in the form $y = kx$ or $y = x + b$.	S55Q1		S55Q2		S56Q1		S77Q2		S91Q2
		S100Q2		S104Q2		S109Q1		S110Q1		S116Q1
		S116Q2		S116Q3						

6.7(A)	generate equivalent numerical expressions using order of operations, including whole number exponents and prime factorization	S37Q3		S38Q1		S38Q2		S42Q2		S43Q2
		S46Q2		S47Q1		S58Q1		S60Q1		S63Q1
		S70Q3		S87Q2						
6.7(B)	distinguish between expressions and equations verbally, numerically, and algebraically	S26Q1		S26Q3		S27Q3		S38Q3		S87Q3
6.7(C)	determine if two expressions are equivalent using concrete models, pictorial models, and algebraic representations	S27Q1		S28Q1		S28Q2		S39Q1		S88Q1
6.7(D)	generate equivalent expressions using the properties of operations: inverse, identity, commutative, associative, and distributive properties	S39Q2		S39Q3		S40Q1		S40Q2		S43Q3
		S46Q3		S49Q3		S53Q2		S58Q2		S59Q1
		S60Q2		S88Q2						

6.8(A)	extend previous knowledge of triangles and their properties to include the sum of angles of a triangle, the relationship between the lengths of sides and measures of angles in a triangle, and determining when three lengths form a triangle										
		S61Q2		S61Q3		S80Q3		S92Q2			
6.8(B)	model area formulas for parallelograms, trapezoids, and triangles by decomposing and rearranging parts of these shapes										
		S62Q1		S62Q3		S63Q2		S72Q2			
6.8(C)	write equations that represent problems related to the area of rectangles, parallelograms, trapezoids, and triangles and volume of right rectangular prisms where dimensions are positive rational numbers										
		S64Q3		S65Q2		S67Q1		S93Q1			
6.8(D)	determine solutions for problems involving the area of rectangles, parallelograms, trapezoids, and triangles and volume of right rectangular prisms where dimensions are positive rational numbers										
		S65Q3		S66Q1		S66Q2		S77Q3		S93Q2	
		S100Q3		S109Q3		S111Q1		S112Q1		S117Q1	
		S117Q2									

6.9(A)	write one-variable, one-step equations and inequalities to represent constraints or conditions within problems	S31Q3		S32Q1		S44Q1		S88Q3		
6.9(B)	represent solutions for one-variable, one-step equations and inequalities on number lines	S48Q3		S50Q1		S53Q3		S71Q3		S90Q1
6.9(C)	write corresponding real-world problems given one-variable, one-step equations or inequalities	S33Q2		S33Q3		S47Q3		S61Q1		S89Q1
6.10(A)	model and solve one-variable, one-step equations and inequalities that represent problems, including geometric concepts	S34Q1		S34Q3		S44Q2		S44Q3		S45Q1
		S51Q1		S54Q3		S65Q1		S89Q2		S103Q2
		S103Q3		S114Q1						
6,10(B)	determine if the given value(s) make(s) one-variable, one-step equations or inequalities true	S47Q2		S48Q1		S49Q1		S89Q3		S104Q3
6.11(A)	graph points in all four quadrants using ordered pairs of rational numbers	S50Q3		S51Q2		S51Q3		S60Q3		S75Q2
		S90Q2		S98Q1		S98Q2		S100Q1		S104Q1
		S115Q1		S115Q2						
6.12(A)	represent numeric data graphically, including dot plots, stem-and-leaf plots, histograms, and box plots	S69Q2		S71Q1		S71Q2		S75Q3		S95Q1
		S97Q1								

6.12(B)	use the graphical representation of numeric data to describe the center, spread, and shape of the data distribution									
		S67Q3		S68Q3		S69Q1		S70Q1		S94Q2
		S96Q2								
6.12(C)	summarize numeric data with numerical summaries, including the mean and median (measures of center) and the range and interquartile range (IQR) (measures of spread), and use these summaries to describe the center, spread, and shape of the data distribution									
		S78Q1		S94Q1		S98Q3		S99Q1		S99Q2
		S101Q1		S106Q1		S115Q3		S118Q1		S118Q2
		S118Q3		S119Q1		S119Q3				
6.12(D)	summarize categorical data with numerical and graphical summaries, including the mode, the percent of values in each category (relative frequency table), and the percent bar graph, and use these summaries to describe the data distribution									
		S73Q3		S74Q3		S78Q3		S96Q1		S97Q2
		S102Q1		S102Q2		S106Q2		S109Q2		S110Q2
		S120Q1								
6.13(A)	interpret numeric data summarized in dot plots, stem-and-leaf plots, histograms, and box plots									
		S72Q3		S73Q2		S76Q3		S79Q2		S95Q2
		S101Q2		S101Q3		S105Q3		S113Q1		S119Q2

6.13(B)	distinguish between situations that yield data with and without variability										
		S80Q1		S80Q2		S102Q3		S103Q1			
6.14(A)	compare the features and costs of a checking account and a debit card offered by different local financial institutions										
		S73Q1		S75Q1		S91Q3		S106Q3		S111Q2	
6.14(B)	distinguish between debit cards and credit cards										
6.14(C)	balance a check register that includes deposits, withdrawals, and transfers										
		S74Q1		S92Q3		S107Q2		S112Q2		S120Q2	
6.14(D)	explain why it is important to establish a positive credit history (not tested)										
6.14(E)	describe the information in a credit report and how long it is retained										
		S76Q2		S94Q3		S107Q3		S110Q3		S113Q2	
6.14(F)	describe the value of credit reports to borrowers and to lenders										
		S78Q2		S108Q3		S111Q3		S117Q3		S120Q3	
6.14(G)	explain various methods to pay for college, including through savings, grants, scholarships, student loans, and work-study										
		S77Q1		S95Q3		S112Q3		S113Q3			
6.14(H)	compare the annual salary of several occupations requiring various levels of post-secondary education or vocational training and calculate the effects of the different annual salaries on lifetime income										
		S79Q1		S93Q3		S97Q3		S114Q2		S114Q3	