



Claim	Target	IAB	DOK	Standards	Item Types
1: Concepts and Procedures	A: Understand ratio concepts and use ratio reasoning to solve problems.	Ratio and Proportional Relationships	1, 2	<p>6.RP.1: Understand the concept of a ratio and use ratio language to describe a ratio relationship between two quantities. For example, “The ratio of wings to beaks in the bird house at the zoo was 2:1, because for every 2 wings there was 1 beak.” “For every vote candidate A received, candidate C received nearly three votes.”</p>	MS, EQ, TI, G, MA
				<p>6.RP.2: Understand the concept of a unit rate a/b associated with a ratio $a:b$ with $b \neq 0$, and use rate language in the context of a ratio relationship. For example, “This recipe has a ratio of 3 cups of flour to 4 cups of sugar, so there is $3/4$ cup of flour for each cup of sugar.” “We paid \$75 for 15 hamburgers, which is a rate of \$5 per hamburger.”</p>	
				<p>6.RP.3: Use ratio and rate reasoning to solve real-world and mathematical problems, e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations.</p> <p>6.RP.3a: Make tables of equivalent ratios relating quantities with whole number measurements, find missing values in the tables, and plot the pairs of values on the coordinate plane. Use tables to compare ratios.</p> <p>6.RP.3b: Solve unit rate problems including those involving unit pricing and constant speed. For example, “If it took 7 hours to mow 4 lawns, then at that rate, how many lawns could be mowed in 35 hours? At what rate were lawns being mowed?”</p> <p>6.RP.3c: Find a percent of a quantity as a rate per 100 (e.g., 30% of a quantity means $30/100$ times the quantity); solve problems involving finding the whole, given a part and the percent.</p> <p>6.RP.3d: Use ratio reasoning to convert measurement units; manipulate and transform units appropriately when multiplying or dividing quantities.</p>	

Shaded standards denote additional and supporting clusters

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Claim	Target	IAB	DOK	Standards	Item Types
1: Concepts and Procedures	B: Apply and extend previous understandings of multiplication and division to divide fractions by fractions.	The Number System	1, 2	6.NS.1: Interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions, e.g., by using visual fraction models and equations to represent the problem. For example, create a story context for $(2/3) \div (3/4)$ and use a visual fraction model to show the quotient; use the relationship between multiplication and division to explain that $(2/3) \div (3/4) = 8/9$ because $3/4$ of $8/9$ is $2/3$. (In general, $(a/b) \div (c/d) = ad/bc$.) How much chocolate will each person get if 3 people share $1/2$ lb of chocolate equally? How many $3/4$ -cup servings are in $2/3$ of a cup of yogurt? How wide is a rectangular strip of land with length $3/4$ mi and area $1/2$ square mi?	MC, DD, EQ
	C: Compute fluently with multi-digit numbers and find common factors and multiples.	The Number System	1, 2	6.NS.2: Fluently divide multi-digit numbers using the standard algorithm. 6.NS.3: Fluently add, subtract, multiply, and divide multi-digit decimals using the standard algorithm for each operation. 6.NS.4: Find the greatest common factor of two whole numbers less than or equal to 100 and the least common multiple of two whole numbers less than or equal to 12. Use the distributive property to express a sum of two whole numbers 1–100 with a common factor as a multiple of a sum of two whole numbers with no common factor. For example, express $36 + 8$ as $4(9 + 2)$.	EQ
	D: Apply and extend previous understandings of numbers to the system of rational numbers.	The Number System	1, 2	6.NS.5: Understand that positive and negative numbers are used together to describe quantities having opposite directions or values (e.g., temperature above/below zero, elevation above/below sea level, credits/debits, positive/negative electric charge); use positive and negative numbers to represent quantities in real-world contexts, explaining the meaning of 0 in each situation.	MC, MS, EQ, MA, DD, G, HS

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Claim	Target	IAB	DOK	Standards	Item Types
1: Concepts and Procedures	D: Apply and extend previous understandings of numbers to the system of rational numbers.	The Number System	1, 2	<p>6.NS.6: Understand a rational number as a point on the number line. Extend number line diagrams and coordinate axes familiar from previous grades to represent points on the line and in the plane with negative number coordinates.</p> <p>6.NS.6a: Recognize opposite signs of numbers as indicating locations on opposite sides of 0 on the number line; recognize that the opposite of the opposite of a number is the number itself, e.g., $-(-3) = 3$, and that 0 is its own opposite.</p> <p>6.NS.6b: Understand signs of numbers in ordered pairs as indicating locations in quadrants of the coordinate plane; recognize that when two ordered pairs differ only by signs, the locations of the points are related by reflections across one or both axes.</p> <p>6.NS.6c: Find and position integers and other rational numbers on a horizontal or vertical number line diagram; find and position pairs of integers and other rational numbers on a coordinate plane.</p>	MC, MS, EQ, MA, DD, G, HS
				<p>6.NS.7: Understand ordering and absolute value of rational numbers.</p> <p>6.NS.7a: Interpret statements of inequality as statements about the relative position of two numbers on a number line diagram. For example, interpret $-3 > -7$ as a statement that -3 is located to the right of -7 on a number line oriented from left to right.</p> <p>6.NS.7b: Write, interpret, and explain statements of order for rational numbers in real-world contexts. For example, write $-3^{\circ}\text{C} > -7^{\circ}\text{C}$ to express the fact that -3°C is warmer than -7°C.</p> <p>6.NS.7c: Understand the absolute value of a rational number as its distance from 0 on the number line; interpret absolute value as magnitude for a positive or negative quantity in a real-world situation. For example, for an account balance of -30 dollars, write $-30 = 30$ to describe the size of the debt in dollars.</p> <p>6.NS.7d: Distinguish comparisons of absolute value from statements about order. For example, recognize that an account balance less than -30 dollars represents a debt greater than 30 dollars.</p>	

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Claim	Target	IAB	DOK	Standards	Item Types
1: Concepts and Procedures	D: Apply and extend previous understandings of numbers to the system of rational numbers.	The Number System	1, 2	6.NS.8: Solve real-world and mathematical problems by graphing points in all four quadrants of the coordinate plane. Include use of coordinates and absolute value to find distances between points with the same first coordinate or the same second coordinate.	MC, MS, EQ, MA, DD, G, HS
	E: Apply and extend previous understandings of arithmetic to algebraic expressions.	Expressions and Equations	1	<p>6.EE.1: Write and evaluate numerical expressions involving whole-number exponents.</p> <p>6.EE.2: Write, read, and evaluate expressions in which letters stand for numbers.</p> <p>6.EE.2a: Write expressions that record operations with numbers and with letters standing for numbers. For example, express the calculation “Subtract y from 5” as $5 - y$.</p> <p>6.EE.2b: Identify parts of an expression using mathematical terms (sum, term, product, factor, quotient, coefficient); view one or more parts of an expression as a single entity. For example, describe the expression $2(8 + 7)$ as a product of two factors; view $(8 + 7)$ as both a single entity and a sum of two terms.</p> <p>6.EE.2c: Evaluate expressions at specific values of their variables. Include expressions that arise from formulas used in real-world problems. Perform arithmetic operations, including those involving whole number exponents, in the conventional order when there are no parentheses to specify a particular order (Order of Operations). For example, use the formulas $V = s^3$ and $A = 6s^2$ to find the volume and surface area of a cube with sides of length $s = 1/2$.</p>	MS, EQ, DD

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Claim	Target	IAB	DOK	Standards	Item Types
1: Concepts and Procedures	E: Apply and extend previous understandings of arithmetic to algebraic expressions.	Expressions and Equations	1	6.EE.3: Apply the properties of operations to generate equivalent expressions. For example, apply the distributive property to the expression $3(2 + x)$ to produce the equivalent expression $6 + 3x$; apply the distributive property to the expression $24x + 18y$ to produce the equivalent expression $6(4x + 3y)$; apply properties of operations to $y + y + y$ to produce the equivalent expression $3y$.	MS, EQ, DD
				6.EE.4: Identify when two expressions are equivalent (i.e., when the two expressions name the same number regardless of which value is substituted into them). For example, the expressions $y + y + y$ and $3y$ are equivalent because they name the same number regardless of which number y stands for.	
	F: Reason about and solve one-variable equations and inequalities.	Expressions and Equations	1, 2	6.EE.5: Understand solving an equation or inequality as a process of answering a question: which values from a specified set, if any, make the equation or inequality true? Use substitution to determine whether a given number in a specified set makes an equation or inequality true.	MC, MS, DD, EQ, MA
				6.EE.6: Use variables to represent numbers and write expressions when solving a real-world or mathematical problem; understand that a variable can represent an unknown number, or, depending on the purpose at hand, any number in a specified set.	
				6.EE.7: Solve real-world and mathematical problems by writing and solving equations of the form $x + p = q$ and $px = q$ for cases in which p , q and x are all nonnegative rational numbers.	
				6.EE.8: Write an inequality of the form $x > c$ or $x < c$ to represent a constraint or condition in a real-world or mathematical problem. Recognize that inequalities of the form $x > c$ or $x < c$ have infinitely many solutions; represent solutions of such inequalities on number line diagrams.	

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Claim	Target	IAB	DOK	Standards	Item Types
1: Concepts and Procedures	G: Represent and analyze quantitative relationships between dependent and independent variables.	Expressions and Equations	2	6.EE.9: Use variables to represent two quantities in a real-world problem that change in relationship to one another; write an equation to express one quantity, thought of as the dependent variable, in terms of the other quantity, thought of as the independent variable. Analyze the relationship between the dependent and independent variables using graphs and tables, and relate these to the equation. For example, in a problem involving motion at constant speed, list and graph ordered pairs of distances and times, and write the equation $d = 65t$ to represent the relationship between distance and time.	MC, MS, EQ, MA, TI
	H: Solve real-world and mathematical problems involving area, surface area, and volume.	Geometry	2	6.G.1: Find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles or decomposing into triangles and other shapes; apply these techniques in the context of solving real-world and mathematical problems.	EQ, G
				6.G.2: Find the volume of a right rectangular prism with fractional edge lengths by packing it with unit cubes of the appropriate unit fraction edge lengths, and show that the volume is the same as would be found by multiplying the edge lengths of the prism. Apply the formulas $V = l w h$ and $V = b h$ to find volumes of right rectangular prisms with fractional edge lengths in the context of solving real-world and mathematical problems.	
				6.G.3: Draw polygons in the coordinate plane given coordinates for the vertices; use coordinates to find the length of a side joining points with the same first coordinate or the same second coordinate. Apply these techniques in the context of solving real-world and mathematical problems.	
6.G.4: Represent three-dimensional figures using nets made up of rectangles and triangles, and use the nets to find the surface area of these figures. Apply these techniques in the context of solving real-world and mathematical problems.					

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Claim	Target	IAB	DOK	Standards	Item Types
1: Concepts and Procedures	I: Develop an understanding of statistics variability.	Statistics and Probability	2	6.SP.1: Recognize a statistical question as one that anticipates variability in the data related to the question and accounts for it in the answers. For example, “How old am I?” is not a statistical question, but “How old are the students in my school?” is a statistical question because one anticipates variability in students’ ages.	MC, MA
				6.SP.2: 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.	
1: Concepts and Procedures	J: Summarize and describe distributions.	Statistics and Probability	1, 2	6.SP.3: Recognize that a measure of center for a numerical data set summarizes all of its values with a single number, while a measure of variation describes how its values vary with a single number.	MC, MS, EQ, DD, HS, MA
				6.SP.4: Display numerical data in plots on a number line, including dot plots, histograms, and box plots.	
				6.SP.5: Summarize numerical data sets in relation to their context, such as by: 6.SP.5a: Reporting the number of observations. 6.SP.5b: Describing the nature of the attribute under investigation, including how it was measured and its units of measurement. 6.SP.5c: Giving quantitative measures of center (median and/or mean) and variability (interquartile range and/or mean absolute deviation), as well as describing any overall pattern and any striking deviations from the overall pattern with reference to the context in which the data were gathered. 6.SP.5d: Relating the choice of measures of center and variability to the shape of the data distribution and the context in which the data were gathered.	

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Claim	Target/DOK	IAB	Standards	Item Types
2: Problem Solving	<p>A: Apply mathematics to solve well-posed problems in pure mathematics and arising in everyday life, society, and the workplace. (2, 3)</p> <p>B: Select and use appropriate tools strategically. (1, 2, 3)</p> <p>C: Interpret results in the context of a situation. (1, 2, 3)</p> <p>D: Identify important quantities in a practical situation and map their relationships (e.g., using diagrams, two-way tables, graphs, flowcharts, or formulas). (1, 2, 3)</p>	<p>Ratio and Proportional Relationships</p> <p>Expressions and Equations</p> <p>Geometry</p> <p>The Number System</p> <p>Statistics and Probability</p> <p>Performance Task</p>	<p>6.RP.1: Understand the concept of a ratio and use ratio language to describe a ratio relationship between two quantities. For example, “The ratio of wings to beaks in the bird house at the zoo was 2:1, because for every 2 wings there was 1 beak.” “For every vote candidate A received, candidate C received nearly three votes.”</p>	<p>MC, MS, EQ, GI, MA, DD, HS, TI</p> <p>ST (PT Only)</p>
			<p>6.RP.2: Understand the concept of a unit rate a/b associated with a ratio $a:b$ with $b \neq 0$, and use rate language in the context of a ratio relationship. For example, “This recipe has a ratio of 3 cups of flour to 4 cups of sugar, so there is $3/4$ cup of flour for each cup of sugar.” “We paid \$75 for 15 hamburgers, which is a rate of \$5 per hamburger.”</p>	
			<p>6.RP.3: Use ratio and rate reasoning to solve real-world and mathematical problems, e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations.</p> <p>6.RP.3a: Make tables of equivalent ratios relating quantities with whole number measurements, find missing values in the tables, and plot the pairs of values on the coordinate plane. Use tables to compare ratios.</p>	
			<p>6.RP.3b: Solve unit rate problems including those involving unit pricing and constant speed. For example, “If it took 7 hours to mow 4 lawns, then at that rate, how many lawns could be mowed in 35 hours? At what rate were lawns being mowed?”</p> <p>6.RP.3c: Find a percent of a quantity as a rate per 100 (e.g., 30% of a quantity means $30/100$ times the quantity); solve problems involving finding the whole, given a part and the percent.</p> <p>6.RP.3d: Use ratio reasoning to convert measurement units; manipulate and transform units appropriately when multiplying or dividing quantities.</p>	

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2: Problem Solving	<p>A: Apply mathematics to solve well-posed problems in pure mathematics and arising in everyday life, society, and the workplace. (2, 3)</p> <p>B: Select and use appropriate tools strategically. (1, 2, 3)</p> <p>C: Interpret results in the context of a situation. (1, 2, 3)</p> <p>D: Identify important quantities in a practical situation and map their relationships (e.g., using diagrams, two-way tables, graphs, flowcharts, or formulas). (1, 2, 3)</p>	<p>Ratio and Proportional Relationships</p> <p>Expressions and Equations</p> <p>Geometry</p> <p>The Number System</p> <p>Statistics and Probability</p> <p>Performance Task</p>	<p>6.NS.1: Interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions, e.g., by using visual fraction models and equations to represent the problem. For example, create a story context for $(2/3) \div (3/4)$ and use a visual fraction model to show the quotient; use the relationship between multiplication and division to explain that $(2/3) \div (3/4) = 8/9$ because $3/4$ of $8/9$ is $2/3$. (In general, $(a/b) \div (c/d) = ad/bc$.) How much chocolate will each person get if 3 people share $1/2$ lb of chocolate equally? How many $3/4$-cup servings are in $2/3$ of a cup of yogurt? How wide is a rectangular strip of land with length $3/4$ mi and area $1/2$ square mi?</p>	<p>MC, MS, EQ, GI, MA, DD, HS, TI</p> <p>ST (PT Only)</p>
	<p>6.NS.5: Understand that positive and negative numbers are used together to describe quantities having opposite directions or values (e.g., temperature above/below zero, elevation above/below sea level, credits/debits, positive/negative electric charge); use positive and negative numbers to represent quantities in real-world contexts, explaining the meaning of 0 in each situation.</p>			

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Claim	Target/DOK	IAB	Standards	Item Types
2: Problem Solving	<p>A: Apply mathematics to solve well-posed problems in pure mathematics and arising in everyday life, society, and the workplace. (2, 3)</p>	Ratio and Proportional Relationships	<p>6.NS.6: Understand a rational number as a point on the number line. Extend number line diagrams and coordinate axes familiar from previous grades to represent points on the line and in the plane with negative number coordinates.</p> <p>6.NS.6a: Recognize opposite signs of numbers as indicating locations on opposite sides of 0 on the number line; recognize that the opposite of the opposite of a number is the number itself, e.g., $-(-3) = 3$, and that 0 is its own opposite.</p> <p>6.NS.6b: Understand signs of numbers in ordered pairs as indicating locations in quadrants of the coordinate plane; recognize that when two ordered pairs differ only by signs, the locations of the points are related by reflections across one or both axes.</p> <p>6.NS.6c: Find and position integers and other rational numbers on a horizontal or vertical number line diagram; find and position pairs of integers and other rational numbers on a coordinate plane.</p>	MC, MS, EQ, GI, MA, DD, HS, TI
	<p>B: Select and use appropriate tools strategically. (1, 2, 3)</p>	Expressions and Equations		
	<p>C: Interpret results in the context of a situation. (1, 2, 3)</p>	Geometry		
	<p>D: Identify important quantities in a practical situation and map their relationships (e.g., using diagrams, two-way tables, graphs, flowcharts, or formulas). (1, 2, 3)</p>	The Number System		
		Statistics and Probability		ST (PT Only)
		Performance Task		

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2: Problem Solving	<p>A: Apply mathematics to solve well-posed problems in pure mathematics and arising in everyday life, society, and the workplace. (2, 3)</p>	Ratio and Proportional Relationships	<p>6.NS.7: Understand ordering and absolute value of rational numbers.</p> <p>6.NS.7a: Interpret statements of inequality as statements about the relative position of two numbers on a number line diagram. For example, interpret $-3 > -7$ as a statement that -3 is located to the right of -7 on a number line oriented from left to right.</p> <p>6.NS.7b: Write, interpret, and explain statements of order for rational numbers in real-world contexts. For example, write $-3^{\circ}\text{C} > -7^{\circ}\text{C}$ to express the fact that -3°C is warmer than -7°C.</p> <p>6.NS.7c: Understand the absolute value of a rational number as its distance from 0 on the number line; interpret absolute value as magnitude for a positive or negative quantity in a real-world situation. For example, for an account balance of -30 dollars, write $-30 = 30$ to describe the size of the debt in dollars.</p> <p>6.NS.7d: Distinguish comparisons of absolute value from statements about order. For example, recognize that an account balance less than -30 dollars represents a debt greater than 30 dollars.</p>	MC, MS, EQ, GI, MA, DD, HS, TI ST (PT Only)
	<p>B: Select and use appropriate tools strategically. (1, 2, 3)</p>	Expressions and Equations		
	<p>C: Interpret results in the context of a situation. (1, 2, 3)</p>	Geometry		
	<p>D: Identify important quantities in a practical situation and map their relationships (e.g., using diagrams, two-way tables, graphs, flowcharts, or formulas). (1, 2, 3)</p>	The Number System		
		Statistics and Probability		
		Performance Task		

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Claim	Target/DOK	IAB	Standards	Item Types
2: Problem Solving	A: Apply mathematics to solve well-posed problems in pure mathematics and arising in everyday life, society, and the workplace. (2, 3)	Ratio and Proportional Relationships	6.NS.8: Solve real-world and mathematical problems by graphing points in all four quadrants of the coordinate plane. Include use of coordinates and absolute value to find distances between points with the same first coordinate or the same second coordinate.	MC, MS, EQ, GI, MA, DD, HS, TI ST (PT Only)
	B: Select and use appropriate tools strategically. (1, 2, 3)	Expressions and Equations	6.EE.1: Write and evaluate numerical expressions involving whole-number exponents.	
	C: Interpret results in the context of a situation. (1, 2, 3)	Geometry	6.EE.2: Write, read, and evaluate expressions in which letters stand for numbers. 6.EE.2a: Write expressions that record operations with numbers and with letters standing for numbers. For example, express the calculation “Subtract y from 5” as $5 - y$. 6.EE.2b: Identify parts of an expression using mathematical terms (sum, term, product, factor, quotient, coefficient); view one or more parts of an expression as a single entity. For example, describe the expression $2(8 + 7)$ as a product of two factors; view $(8 + 7)$ as both a single entity and a sum of two terms.	
	D: Identify important quantities in a practical situation and map their relationships (e.g., using diagrams, two-way tables, graphs, flowcharts, or formulas). (1, 2, 3)	The Number System Statistics and Probability Performance Task	6.EE.2c: Evaluate expressions at specific values of their variables. Include expressions that arise from formulas used in real-world problems. Perform arithmetic operations, including those involving whole number exponents, in the conventional order when there are no parentheses to specify a particular order (Order of Operations). For example, use the formulas $V = s^3$ and $A = 6s^2$ to find the volume and surface area of a cube with sides of length $s = 1/2$.	

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Claim	Target/DOK	IAB	Standards	Item Types
2: Problem Solving	A: Apply mathematics to solve well-posed problems in pure mathematics and arising in everyday life, society, and the workplace. (2, 3)	Ratio and Proportional Relationships	6.EE.3: Apply the properties of operations to generate equivalent expressions. For example, apply the distributive property to the expression $3(2 + x)$ to produce the equivalent expression $6 + 3x$; apply the distributive property to the expression $24x + 18y$ to produce the equivalent expression $6(4x + 3y)$; apply properties of operations to $y + y + y$ to produce the equivalent expression $3y$.	MC, MS, EQ, GI, MA, DD, HS, TI ST (PT Only)
		Expressions and Equations	6.EE.4: Identify when two expressions are equivalent (i.e., when the two expressions name the same number regardless of which value is substituted into them). For example, the expressions $y + y + y$ and $3y$ are equivalent because they name the same number regardless of which number y stands for.	
	B: Select and use appropriate tools strategically. (1, 2, 3)	Geometry	6.EE.5: Understand solving an equation or inequality as a process of answering a question: which values from a specified set, if any, make the equation or inequality true? Use substitution to determine whether a given number in a specified set makes an equation or inequality true.	
	C: Interpret results in the context of a situation. (1, 2, 3)	The Number System	6.EE.6: Use variables to represent numbers and write expressions when solving a real-world or mathematical problem; understand that a variable can represent an unknown number, or, depending on the purpose at hand, any number in a specified set.	
		Statistics and Probability	6.EE.7: Solve real-world and mathematical problems by writing and solving equations of the form $x + p = q$ and $px = q$ for cases in which p, q and x are all nonnegative rational numbers.	
		Performance Task		
D: Identify important quantities in a practical situation and map their relationships (e.g., using diagrams, two-way tables, graphs, flowcharts, or formulas). (1, 2, 3)				

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Claim	Target/DOK	IAB	Standards	Item Types
2: Problem Solving	<p>A: Apply mathematics to solve well-posed problems in pure mathematics and arising in everyday life, society, and the workplace. (2, 3)</p> <p>B: Select and use appropriate tools strategically. (1, 2, 3)</p> <p>C: Interpret results in the context of a situation. (1, 2, 3)</p> <p>D: Identify important quantities in a practical situation and map their relationships (e.g., using diagrams, two-way tables, graphs, flowcharts, or formulas). (1, 2, 3)</p>	<p>Ratio and Proportional Relationships</p> <p>Expressions and Equations</p> <p>Geometry</p> <p>The Number System</p> <p>Statistics and Probability</p> <p>Performance Task</p>	<p>6.EE.8: Write an inequality of the form $x > c$ or $x < c$ to represent a constraint or condition in a real-world or mathematical problem. Recognize that inequalities of the form $x > c$ or $x < c$ have infinitely many solutions; represent solutions of such inequalities on number line diagrams.</p>	<p>MC, MS, EQ, GI, MA, DD, HS, TI</p> <p>ST (PT Only)</p>
	<p>6.EE.9: Use variables to represent two quantities in a real-world problem that change in relationship to one another; write an equation to express one quantity, thought of as the dependent variable, in terms of the other quantity, thought of as the independent variable. Analyze the relationship between the dependent and independent variables using graphs and tables, and relate these to the equation. For example, in a problem involving motion at constant speed, list and graph ordered pairs of distances and times, and write the equation $d = 65t$ to represent the relationship between distance and time.</p>			

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Claim	Target/DOK	IAB	Standards	Item Types
2: Problem Solving	A: Apply mathematics to solve well-posed problems in pure mathematics and arising in everyday life, society, and the workplace. (2, 3)	Ratio and Proportional Relationships	6.G.1: Find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles or decomposing into triangles and other shapes; apply these techniques in the context of solving real-world and mathematical problems.	MC, MS, EQ, GI, MA, DD, HS, TI
	B: Select and use appropriate tools strategically. (1, 2, 3)	Expressions and Equations	6.G.2: Find the volume of a right rectangular prism with fractional edge lengths by packing it with unit cubes of the appropriate unit fraction edge lengths, and show that the volume is the same as would be found by multiplying the edge lengths of the prism. Apply the formulas $V = l w h$ and $V = b h$ to find volumes of right rectangular prisms with fractional edge lengths in the context of solving real-world and mathematical problems.	
	C: Interpret results in the context of a situation. (1, 2, 3)	Geometry	6.G.3: Draw polygons in the coordinate plane given coordinates for the vertices; use coordinates to find the length of a side joining points with the same first coordinate or the same second coordinate. Apply these techniques in the context of solving real-world and mathematical problems.	ST (PT Only)
	D: Identify important quantities in a practical situation and map their relationships (e.g., using diagrams, two-way tables, graphs, flowcharts, or formulas). (1, 2, 3)	The Number System	6.G.4: Represent three-dimensional figures using nets made up of rectangles and triangles, and use the nets to find the surface area of these figures. Apply these techniques in the context of solving real-world and mathematical problems.	
		Statistics and Probability		
		Performance Task		

Shaded standards denote additional and supporting clusters

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Claim	Target/DOK	IAB	Standards	Item Types
3: Communicating Reasoning	A: Test propositions or conjectures with specific examples. (2, 3) B: Construct, autonomously, chains of reasoning that will justify or refute propositions or conjectures. (2, 3, 4) C: State logical assumptions being used. (2, 3) D: Use the technique of breaking an argument into cases. (2, 3)	Ratio and Proportional Relationships Expressions and Equations	6.RP.3: Use ratio and rate reasoning to solve real-world and mathematical problems, e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations.	MC, MS, EQ, GI, MA, DD, HS, TI ST (PT Only)
	E: Distinguish correct logic or reasoning from that which is flawed and--if there is a flaw in the argument--explain what it is. (2, 3, 4) F: Base arguments on concrete referents such as objects, drawings, diagrams, and actions. (2, 3) G: At later grades, determine conditions under which an argument does and does not apply. (For example, area increases with perimeter for squares, but not for all plane figures.) (2, 3)	Geometry The Number System Statistics and Probability Performance Task	6.NS.1: Interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions, e.g., by using visual fraction models and equations to represent the problem. For example, create a story context for $(2/3) \div (3/4)$ and use a visual fraction model to show the quotient; use the relationship between multiplication and division to explain that $(2/3) \div (3/4) = 8/9$ because $3/4$ of $8/9$ is $2/3$. (In general, $(a/b) \div (c/d) = ad/bc$.) How much chocolate will each person get if 3 people share $1/2$ lb of chocolate equally? How many $3/4$ -cup servings are in $2/3$ of a cup of yogurt? How wide is a rectangular strip of land with length $3/4$ mi and area $1/2$ square mi?	

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Claim	Target/DOK	IAB	Standards	Item Types
3: Communicating Reasoning	A: Test propositions or conjectures with specific examples. (2, 3) B: Construct, autonomously, chains of reasoning that will justify or refute propositions or conjectures. (2, 3, 4) C: State logical assumptions being used. (2, 3) D: Use the technique of breaking an argument into cases. (2, 3) E: Distinguish correct logic or reasoning from that which is flawed and--if there is a flaw in the argument--explain what it is. (2, 3, 4) F: Base arguments on concrete referents such as objects, drawings, diagrams, and actions. (2, 3) G: At later grades, determine conditions under which an argument does and does not apply. (For example, area increases with perimeter for squares, but not for all plane figures.) (2, 3)	Ratio and Proportional Relationships Expressions and Equations Geometry The Number System Statistics and Probability Performance Task	6.NS.5: Understand that positive and negative numbers are used together to describe quantities having opposite directions or values (e.g., temperature above/below zero, elevation above/below sea level, credits/debits, positive/negative electric charge); use positive and negative numbers to represent quantities in real-world contexts, explaining the meaning of 0 in each situation. 6.NS.6: Understand a rational number as a point on the number line. Extend number line diagrams and coordinate axes familiar from previous grades to represent points on the line and in the plane with negative number coordinates. 6.NS.6a: Recognize opposite signs of numbers as indicating locations on opposite sides of 0 on the number line; recognize that the opposite of the opposite of a number is the number itself, e.g., $-(-3) = 3$, and that 0 is its own opposite. 6.NS.6b: Understand signs of numbers in ordered pairs as indicating locations in quadrants of the coordinate plane; recognize that when two ordered pairs differ only by signs, the locations of the points are related by reflections across one or both axes. 6.NS.6c: Find and position integers and other rational numbers on a horizontal or vertical number line diagram; find and position pairs of integers and other rational numbers on a coordinate plane.	MC, MS, EQ, GI, MA, DD, HS, TI ST (PT Only)

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Claim	Target/DOK	IAB	Standards	Item Types
<p>3: Communicating Reasoning</p>	<p>A: Test propositions or conjectures with specific examples. (2, 3)</p> <p>B: Construct, autonomously, chains of reasoning that will justify or refute propositions or conjectures. (2, 3, 4)</p> <p>C: State logical assumptions being used. (2, 3)</p> <p>D: Use the technique of breaking an argument into cases. (2, 3)</p> <p>E: Distinguish correct logic or reasoning from that which is flawed and--if there is a flaw in the argument--explain what it is. (2, 3, 4)</p> <p>F: Base arguments on concrete referents such as objects, drawings, diagrams, and actions. (2, 3)</p> <p>G: At later grades, determine conditions under which an argument does and does not apply. (For example, area increases with perimeter for squares, but not for all plane figures.) (2, 3)</p>	<p>Ratio and Proportional Relationships</p> <p>Expressions and Equations</p> <p>Geometry</p> <p>The Number System</p> <p>Statistics and Probability</p> <p>Performance Task</p>	<p>6.NS.7: Understand ordering and absolute value of rational numbers.</p> <p>6.NS.7a: Interpret statements of inequality as statements about the relative position of two numbers on a number line diagram. For example, interpret $-3 > -7$ as a statement that -3 is located to the right of -7 on a number line oriented from left to right.</p> <p>6.NS.7b: Write, interpret, and explain statements of order for rational numbers in real-world contexts. For example, write $-3^{\circ}\text{C} > -7^{\circ}\text{C}$ to express the fact that -3°C is warmer than -7°C.</p> <p>6.NS.7c: Understand the absolute value of a rational number as its distance from 0 on the number line; interpret absolute value as magnitude for a positive or negative quantity in a real-world situation. For example, for an account balance of -30 dollars, write $-30 = 30$ to describe the size of the debt in dollars.</p> <p>6.NS.7d: Distinguish comparisons of absolute value from statements about order. For example, recognize that an account balance less than -30 dollars represents a debt greater than 30 dollars.</p>	<p>MC, MS, EQ, GI, MA, DD, HS, TI</p> <p>ST (PT Only)</p>

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Claim	Target/DOK	IAB	Standards	Item Types
3: Communicating Reasoning	A: Test propositions or conjectures with specific examples. (2, 3)	Ratio and Proportional Relationships Expressions and Equations Geometry The Number System Statistics and Probability Performance Task	6.EE.3: Apply the properties of operations to generate equivalent expressions. For example, apply the distributive property to the expression $3(2 + x)$ to produce the equivalent expression $6 + 3x$; apply the distributive property to the expression $24x + 18y$ to produce the equivalent expression $6(4x + 3y)$; apply properties of operations to $y + y + y$ to produce the equivalent expression $3y$.	MC, MS, EQ, GI, MA, DD, HS, TI ST (PT Only)
	B: Construct, autonomously, chains of reasoning that will justify or refute propositions or conjectures. (2, 3, 4)		6.EE.4: Identify when two expressions are equivalent (i.e., when the two expressions name the same number regardless of which value is substituted into them). For example, the expressions $y + y + y$ and $3y$ are equivalent because they name the same number regardless of which number y stands for.	
	C: State logical assumptions being used. (2, 3)		6.EE.6: Use variables to represent numbers and write expressions when solving a real-world or mathematical problem; understand that a variable can represent an unknown number, or, depending on the purpose at hand, any number in a specified set.	
	D: Use the technique of breaking an argument into cases. (2, 3)			
	E: Distinguish correct logic or reasoning from that which is flawed and--if there is a flaw in the argument--explain what it is. (2, 3, 4)			
	F: Base arguments on concrete referents such as objects, drawings, diagrams, and actions. (2, 3)			
	G: At later grades, determine conditions under which an argument does and does not apply. (For example, area increases with perimeter for squares, but not for all plane figures.) (2, 3)			

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Claim	Target/DOK	IAB	Standards	Item Types
<p>3: Communicating Reasoning</p>	<p>A: Test propositions or conjectures with specific examples. (2, 3)</p>			
	<p>B: Construct, autonomously, chains of reasoning that will justify or refute propositions or conjectures. (2, 3, 4)</p>			
	<p>C: State logical assumptions being used. (2, 3)</p>	Ratio and Proportional Relationships		
	<p>D: Use the technique of breaking an argument into cases. (2, 3)</p>	Expressions and Equations	<p>6.EE.9: Use variables to represent two quantities in a real-world problem that change in relationship to one another; write an equation to express one quantity, thought of as the dependent variable, in terms of the other quantity, thought of as the independent variable. Analyze the relationship between the dependent and independent variables using graphs and tables, and relate these to the equation. For example, in a problem involving motion at constant speed, list and graph ordered pairs of distances and times, and write the equation $d = 65t$ to represent the relationship between distance and time.</p>	MC, MS, EQ, GI, MA, DD, HS, TI
	<p>E: Distinguish correct logic or reasoning from that which is flawed and--if there is a flaw in the argument--explain what it is. (2, 3, 4)</p>	Geometry		
	<p>F: Base arguments on concrete referents such as objects, drawings, diagrams, and actions. (2, 3)</p>	The Number System		
	<p>G: At later grades, determine conditions under which an argument does and does not apply. (For example, area increases with perimeter for squares, but not for all plane figures.) (2, 3)</p>	Statistics and Probability		
		Performance Task		ST (PT Only)

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Claim	Target/DOK	IAB	Standards	Item Types
4: Modeling and Data Analysis	<p>A: Apply mathematics to solve problems arising in everyday life, society, and the workplace. (2, 3)</p> <p>B: Construct, autonomously, chains of reasoning to justify mathematical models used, interpretations made, and solutions proposed for a complex problem. (2, 3, 4)</p> <p>C: State logical assumptions being used. (1, 2, 3)</p> <p>D: Interpret results in the context of a situation. (2, 3)</p> <p>E: Analyze the adequacy of and make improvements to an existing model or develop a mathematical model of a real phenomenon. (2, 3, 4)</p> <p>F: Identify important quantities in a practical situation and map their relationships (e.g., using diagrams, two-way tables, graphs, flowcharts, or formulas). (1, 2, 3)</p> <p>G: Identify, analyze and synthesize relevant external resources to pose or solve problems. (3, 4)</p>	<p>Ratio and Proportional Relationships</p> <p>Expressions and Equations</p> <p>Geometry</p> <p>The Number System</p> <p>Statistics and Probability</p> <p>Performance Task</p>	<p>6.RP.1: Understand the concept of a ratio and use ratio language to describe a ratio relationship between two quantities. For example, “The ratio of wings to beaks in the bird house at the zoo was 2:1, because for every 2 wings there was 1 beak.” “For every vote candidate A received, candidate C received nearly three votes.”</p>	<p>MC, MS, EQ, GI, MA, DD, HS, TI</p> <p>ST (PT Only)</p>
	<p>6.RP.2: Understand the concept of a unit rate a/b associated with a ratio $a:b$ with $b \neq 0$, and use rate language in the context of a ratio relationship. For example, “This recipe has a ratio of 3 cups of flour to 4 cups of sugar, so there is $3/4$ cup of flour for each cup of sugar.” “We paid \$75 for 15 hamburgers, which is a rate of \$5 per hamburger.”</p>			

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Claim	Target/DOK	IAB	Standards	Item Types
4: Modeling and Data Analysis	A: Apply mathematics to solve problems arising in everyday life, society, and the workplace. (2, 3)			
	B: Construct, autonomously, chains of reasoning to justify mathematical models used, interpretations made, and solutions proposed for a complex problem. (2, 3, 4)	Ratio and Proportional Relationships	6.RP.3: Use ratio and rate reasoning to solve real-world and mathematical problems, e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations.	
	C: State logical assumptions being used. (1, 2, 3)	Expressions and Equations	6.RP.3a: Make tables of equivalent ratios relating quantities with whole number measurements, find missing values in the tables, and plot the pairs of values on the coordinate plane. Use tables to compare ratios.	
	D: Interpret results in the context of a situation. (2, 3)	Geometry	6.RP.3b: Solve unit rate problems including those involving unit pricing and constant speed. For example, “If it took 7 hours to mow 4 lawns, then at that rate, how many lawns could be mowed in 35 hours? At what rate were lawns being mowed?”	MC, MS, EQ, GI, MA, DD, HS, TI
	E: Analyze the adequacy of and make improvements to an existing model or develop a mathematical model of a real phenomenon. (2, 3, 4)	The Number System	6.RP.3c: Find a percent of a quantity as a rate per 100 (e.g., 30% of a quantity means 30/100 times the quantity); solve problems involving finding the whole, given a part and the percent.	ST (PT Only)
	F: Identify important quantities in a practical situation and map their relationships (e.g., using diagrams, two-way tables, graphs, flowcharts, or formulas). (1, 2, 3)	Statistics and Probability	6.RP.3d: Use ratio reasoning to convert measurement units; manipulate and transform units appropriately when multiplying or dividing quantities.	
	G: Identify, analyze and synthesize relevant external resources to pose or solve problems. (3, 4)	Performance Task		

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Smarter Balanced Assessment Consortium Claims, Targets, and Standard Alignment for Math Interim Assessment Blocks



The Smarter Balanced Assessment Consortium (SBAC) has created a hierarchy comprised of claims and targets that together can be used to make statements about student achievement. Claims are broad statements that outline the outcomes achieved with mastery of the standards within it. Within each claim are a variety of assessment targets that further clarify the knowledge and specific skills that cross over a cluster of standards.

The following tables layout the claims and targets for each assessment claim. Each target may feature a standard or a variety of standards that make up the skill(s) of the target. Each target lists Depth of Knowledge level(s), item type(s) in which the target may be assessed as well as the Interim Assessment Block (IAB) that the target may be assessed in.

Item Types:

- MC – Multiple Choice, Single Correct Response
- MS – Multiple Choice, Multiple Correct Response
- EQ – Equation/Numeric
- MA – Matching Tables
- TI – Fill-in tables
- DD – Drag and Drop
- HS – Hot Spot
- G – Graphing
- GI – Graphing Interaction
- ST – Short Text

Depth of Knowledge:

- 1 - Recall
- 2 - Skill/Concept
- 3 - Strategic Thinking
- 4 - Extended Thinking

Major and Additional/Supporting Clusters:

Not all content in a given grade is emphasized equally in the standards. Some clusters require greater emphasis than others based on the depth of ideas, the time they take to master, and/or their importance to future mathematics or the demands of college and career readiness. The following tables identify the additional and supporting work for the grade with shading. If no shading is included, all standards listed are part of the major work for the grade.



Claim	Target/DOK	IAB	Standards	Item Types
4: Modeling and Data Analysis	<p>A: Apply mathematics to solve problems arising in everyday life, society, and the workplace. (2, 3)</p> <p>B: Construct, autonomously, chains of reasoning to justify mathematical models used, interpretations made, and solutions proposed for a complex problem. (2, 3, 4)</p> <p>C: State logical assumptions being used. (1, 2, 3)</p> <p>D: Interpret results in the context of a situation. (2, 3)</p> <p>E: Analyze the adequacy of and make improvements to an existing model or develop a mathematical model of a real phenomenon. (2, 3, 4)</p> <p>F: Identify important quantities in a practical situation and map their relationships (e.g., using diagrams, two-way tables, graphs, flowcharts, or formulas). (1, 2, 3)</p> <p>G: Identify, analyze and synthesize relevant external resources to pose or solve problems. (3, 4)</p>	<p>Ratio and Proportional Relationships</p> <p>Expressions and Equations</p> <p>Geometry</p> <p>The Number System</p> <p>Statistics and Probability</p> <p>Performance Task</p>	<p>6.NS.1: Interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions, e.g., by using visual fraction models and equations to represent the problem. For example, create a story context for $(2/3) \div (3/4)$ and use a visual fraction model to show the quotient; use the relationship between multiplication and division to explain that $(2/3) \div (3/4) = 8/9$ because $3/4$ of $8/9$ is $2/3$. (In general, $(a/b) \div (c/d) = ad/bc$.) How much chocolate will each person get if 3 people share $1/2$ lb of chocolate equally? How many $3/4$-cup servings are in $2/3$ of a cup of yogurt? How wide is a rectangular strip of land with length $3/4$ mi and area $1/2$ square mi?</p>	<p>MC, MS, EQ, GI, MA, DD, HS, TI</p> <p>ST (PT Only)</p>
	<p>6.NS.5: Understand that positive and negative numbers are used together to describe quantities having opposite directions or values (e.g., temperature above/below zero, elevation above/below sea level, credits/debits, positive/negative electric charge); use positive and negative numbers to represent quantities in real-world contexts, explaining the meaning of 0 in each situation.</p>			

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Claim	Target/DOK	IAB	Standards	Item Types
4: Modeling and Data Analysis	A: Apply mathematics to solve problems arising in everyday life, society, and the workplace. (2, 3)			
	B: Construct, autonomously, chains of reasoning to justify mathematical models used, interpretations made, and solutions proposed for a complex problem. (2, 3, 4)	Ratio and Proportional Relationships	6.NS.6: Understand a rational number as a point on the number line. Extend number line diagrams and coordinate axes familiar from previous grades to represent points on the line and in the plane with negative number coordinates.	
	C: State logical assumptions being used. (1, 2, 3)	Expressions and Equations	6.NS.6a: Recognize opposite signs of numbers as indicating locations on opposite sides of 0 on the number line; recognize that the opposite of the opposite of a number is the number itself, e.g., $-(-3) = 3$, and that 0 is its own opposite.	MC, MS, EQ, GI, MA, DD, HS, TI
	D: Interpret results in the context of a situation. (2, 3)	Geometry	6.NS.6b: Understand signs of numbers in ordered pairs as indicating locations in quadrants of the coordinate plane; recognize that when two ordered pairs differ only by signs, the locations of the points are related by reflections across one or both axes.	ST (PT Only)
	E: Analyze the adequacy of and make improvements to an existing model or develop a mathematical model of a real phenomenon. (2, 3, 4)	The Number System	6.NS.6c: Find and position integers and other rational numbers on a horizontal or vertical number line diagram; find and position pairs of integers and other rational numbers on a coordinate plane.	
	F: Identify important quantities in a practical situation and map their relationships (e.g., using diagrams, two-way tables, graphs, flowcharts, or formulas). (1, 2, 3)	Statistics and Probability		
	G: Identify, analyze and synthesize relevant external resources to pose or solve problems. (3, 4)	Performance Task		

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Claim	Target/DOK	IAB	Standards	Item Types
4: Modeling and Data Analysis	A: Apply mathematics to solve problems arising in everyday life, society, and the workplace. (2, 3)			
	B: Construct, autonomously, chains of reasoning to justify mathematical models used, interpretations made, and solutions proposed for a complex problem. (2, 3, 4)	Ratio and Proportional Relationships	6.NS.7: Understand ordering and absolute value of rational numbers. 6.NS.7a: Interpret statements of inequality as statements about the relative position of two numbers on a number line diagram. For example, interpret $-3 > -7$ as a statement that -3 is located to the right of -7 on a number line oriented from left to right.	
	C: State logical assumptions being used. (1, 2, 3)	Expressions and Equations	6.NS.7b: Write, interpret, and explain statements of order for rational numbers in real-world contexts. For example, write $-3^{\circ}\text{C} > -7^{\circ}\text{C}$ to express the fact that -3°C is warmer than -7°C .	MC, MS, EQ, GI, MA, DD, HS, TI
	D: Interpret results in the context of a situation. (2, 3)	Geometry	6.NS.7c: Understand the absolute value of a rational number as its distance from 0 on the number line; interpret absolute value as magnitude for a positive or negative quantity in a real-world situation. For example, for an account balance of -30 dollars, write $ -30 = 30$ to describe the size of the debt in dollars.	ST (PT Only)
	E: Analyze the adequacy of and make improvements to an existing model or develop a mathematical model of a real phenomenon. (2, 3, 4)	The Number System	6.NS.7d: Distinguish comparisons of absolute value from statements about order. For example, recognize that an account balance less than -30 dollars represents a debt greater than 30 dollars.	
	F: Identify important quantities in a practical situation and map their relationships (e.g., using diagrams, two-way tables, graphs, flowcharts, or formulas). (1, 2, 3)	Statistics and Probability		
	G: Identify, analyze and synthesize relevant external resources to pose or solve problems. (3, 4)	Performance Task		

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Claim	Target/DOK	IAB	Standards	Item Types
4: Modeling and Data Analysis	A: Apply mathematics to solve problems arising in everyday life, society, and the workplace. (2, 3)	Ratio and Proportional Relationships	6.NS.8: Solve real-world and mathematical problems by graphing points in all four quadrants of the coordinate plane. Include use of coordinates and absolute value to find distances between points with the same first coordinate or the same second coordinate.	MC, MS, EQ, GI, MA, DD, HS, TI ST (PT Only)
	B: Construct, autonomously, chains of reasoning to justify mathematical models used, interpretations made, and solutions proposed for a complex problem. (2, 3, 4)			
	C: State logical assumptions being used. (1, 2, 3)	Expressions and Equations	6.EE.5: Understand solving an equation or inequality as a process of answering a question: which values from a specified set, if any, make the equation or inequality true? Use substitution to determine whether a given number in a specified set makes an equation or inequality true.	
	D: Interpret results in the context of a situation. (2, 3)	Geometry		
	E: Analyze the adequacy of and make improvements to an existing model or develop a mathematical model of a real phenomenon. (2, 3, 4)	The Number System	6.EE.6: Use variables to represent numbers and write expressions when solving a real-world or mathematical problem; understand that a variable can represent an unknown number, or, depending on the purpose at hand, any number in a specified set.	
	F: Identify important quantities in a practical situation and map their relationships (e.g., using diagrams, two-way tables, graphs, flowcharts, or formulas). (1, 2, 3)	Statistics and Probability		
G: Identify, analyze and synthesize relevant external resources to pose or solve problems. (3, 4)	Performance Task			

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Claim	Target/DOK	IAB	Standards	Item Types
4: Modeling and Data Analysis	A: Apply mathematics to solve problems arising in everyday life, society, and the workplace. (2, 3)	Ratio and Proportional Relationships Expressions and Equations Geometry The Number System Statistics and Probability Performance Task	6.EE.7: Solve real-world and mathematical problems by writing and solving equations of the form $x + p = q$ and $px = q$ for cases in which p , q and x are all nonnegative rational numbers.	MC, MS, EQ, GI, MA, DD, HS, TI ST (PT Only)
	B: Construct, autonomously, chains of reasoning to justify mathematical models used, interpretations made, and solutions proposed for a complex problem. (2, 3, 4)		6.EE.8: Write an inequality of the form $x > c$ or $x < c$ to represent a constraint or condition in a real-world or mathematical problem. Recognize that inequalities of the form $x > c$ or $x < c$ have infinitely many solutions; represent solutions of such inequalities on number line diagrams.	
	C: State logical assumptions being used. (1, 2, 3)		6.EE.9: Use variables to represent two quantities in a real-world problem that change in relationship to one another; write an equation to express one quantity, thought of as the dependent variable, in terms of the other quantity, thought of as the independent variable. Analyze the relationship between the dependent and independent variables using graphs and tables, and relate these to the equation. For example, in a problem involving motion at constant speed, list and graph ordered pairs of distances and times, and write the equation $d = 65t$ to represent the relationship between distance and time.	
	D: Interpret results in the context of a situation. (2, 3)			
	E: Analyze the adequacy of and make improvements to an existing model or develop a mathematical model of a real phenomenon. (2, 3, 4)			
	F: Identify important quantities in a practical situation and map their relationships (e.g., using diagrams, two-way tables, graphs, flowcharts, or formulas). (1, 2, 3)			
	G: Identify, analyze and synthesize relevant external resources to pose or solve problems. (3, 4)			

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Claim	Target/DOK	IAB	Standards	Item Types
4: Modeling and Data Analysis	<p>A: Apply mathematics to solve problems arising in everyday life, society, and the workplace. (2, 3)</p> <p>B: Construct, autonomously, chains of reasoning to justify mathematical models used, interpretations made, and solutions proposed for a complex problem. (2, 3, 4)</p> <p>C: State logical assumptions being used. (1, 2, 3)</p> <p>D: Interpret results in the context of a situation. (2, 3)</p> <p>E: Analyze the adequacy of and make improvements to an existing model or develop a mathematical model of a real phenomenon. (2, 3, 4)</p> <p>F: Identify important quantities in a practical situation and map their relationships (e.g., using diagrams, two-way tables, graphs, flowcharts, or formulas). (1, 2, 3)</p> <p>G: Identify, analyze and synthesize relevant external resources to pose or solve problems. (3, 4)</p>	<p>Ratio and Proportional Relationships</p> <p>Expressions and Equations</p> <p>Geometry</p> <p>The Number System</p> <p>Statistics and Probability</p> <p>Performance Task</p>	<p>6.G.1: Find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles or decomposing into triangles and other shapes; apply these techniques in the context of solving real-world and mathematical problems.</p>	<p>MC, MS, EQ, GI, MA, DD, HS, TI</p> <p>ST (PT Only)</p>
	<p>6.G.2: Find the volume of a right rectangular prism with fractional edge lengths by packing it with unit cubes of the appropriate unit fraction edge lengths, and show that the volume is the same as would be found by multiplying the edge lengths of the prism. Apply the formulas $V = l w h$ and $V = b h$ to find volumes of right rectangular prisms with fractional edge lengths in the context of solving real-world and mathematical problems.</p>			

Shaded standards denote additional and supporting clusters

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Claim	Target/DOK	IAB	Standards	Item Types
4: Modeling and Data Analysis	A: Apply mathematics to solve problems arising in everyday life, society, and the workplace. (2, 3)	Ratio and Proportional Relationships	6.G.3: Draw polygons in the coordinate plane given coordinates for the vertices; use coordinates to find the length of a side joining points with the same first coordinate or the same second coordinate. Apply these techniques in the context of solving real-world and mathematical problems.	MC, MS, EQ, GI, MA, DD, HS, TI ST (PT Only)
	B: Construct, autonomously, chains of reasoning to justify mathematical models used, interpretations made, and solutions proposed for a complex problem. (2, 3, 4)		6.G.4: Represent three-dimensional figures using nets made up of rectangles and triangles, and use the nets to find the surface area of these figures. Apply these techniques in the context of solving real-world and mathematical problems.	
	C: State logical assumptions being used. (1, 2, 3)	Expressions and Equations	6.SP.1: Recognize a statistical question as one that anticipates variability in the data related to the question and accounts for it in the answers. For example, “How old am I?” is not a statistical question, but “How old are the students in my school?” is a statistical question because one anticipates variability in students’ ages.	
	D: Interpret results in the context of a situation. (2, 3)	Geometry	6.SP.2: 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.	
	E: Analyze the adequacy of and make improvements to an existing model or develop a mathematical model of a real phenomenon. (2, 3, 4)	The Number System	6.SP.3: Recognize that a measure of center for a numerical data set summarizes all of its values with a single number, while a measure of variation describes how its values vary with a single number.	
	F: Identify important quantities in a practical situation and map their relationships (e.g., using diagrams, two-way tables, graphs, flowcharts, or formulas). (1, 2, 3)	Statistics and Probability	6.SP.4: Display numerical data in plots on a number line, including dot plots, histograms, and box plots.	
	G: Identify, analyze and synthesize relevant external resources to pose or solve problems. (3, 4)	Performance Task		

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Claim	Target/DOK	IAB	Standards	Item Types
4: Modeling and Data Analysis	A: Apply mathematics to solve problems arising in everyday life, society, and the workplace. (2, 3)			
	B: Construct, autonomously, chains of reasoning to justify mathematical models used, interpretations made, and solutions proposed for a complex problem. (2, 3, 4)	Ratio and Proportional Relationships	6.SP.5: Summarize numerical data sets in relation to their context, such as by: 6.SP.5a: Reporting the number of observations. 6.SP.5b: Describing the nature of the attribute under investigation, including how it was measured and its units of measurement. 6.SP.5c: Giving quantitative measures of center (median and/or mean) and variability (interquartile range and/or mean absolute deviation), as well as describing any overall pattern and any striking deviations from the overall pattern with reference to the context in which the data were gathered. 6.SP.5d: Relating the choice of measures of center and variability to the shape of the data distribution and the context in which the data were gathered.	
	C: State logical assumptions being used. (1, 2, 3)	Expressions and Equations		
	D: Interpret results in the context of a situation. (2, 3)	Geometry		
	E: Analyze the adequacy of and make improvements to an existing model or develop a mathematical model of a real phenomenon. (2, 3, 4)	The Number System		
	F: Identify important quantities in a practical situation and map their relationships (e.g., using diagrams, two-way tables, graphs, flowcharts, or formulas). (1, 2, 3)	Statistics and Probability		
	G: Identify, analyze and synthesize relevant external resources to pose or solve problems. (3, 4)	Performance Task		
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