

Standards Plus High Impact Standards - Mathematics – Grade 6

Domain	Lesson	Focus	Digital Lesson #	Standard(s)	
The Number System	1	Dividing Fractions	13	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. <i>For example, create a story context for $(\frac{2}{3}) \div (\frac{3}{4})$ and use a visual fraction model to show the quotient; use the relationship between multiplication and division to explain that $(\frac{2}{3}) \div (\frac{3}{4}) = 8/9$ because $\frac{3}{4}$ of $8/9$ is $\frac{2}{3}$. (In general, $(a/b) \div (c/d) = ad/bc$.)</i>	
	2	Dividing Fractions	14		
	3	Dividing Fractions	15		
	4	Dividing Fractions	16		
	A1	Assessment – Dividing Fractions	A4		
	5	Opposite Numbers & the Number Line	17	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.	
	6	Positive and Negative Numbers/Number Line	18	6.NS.5: Understand that positive and negative numbers are used together to describe quantities having opposite directions or values; use positive and negative numbers to represent quantities in real-world contexts, explaining the meaning of 0 in each situation.	
	7	Positive and Negative Numbers/Number Line	19	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.	
	8	Position Fractions on a Number Line	20	6.NS.6c	
	A2	Assessment – Numbers and Their Opposites, Position Rational Numbers	A5	6.NS.5, 6.NS.6a, 6.NS.6c	
	9	Position Rational Numbers on a Line	21	6.NS.6c	
	10	Position Rational Numbers on a Line	22		
	11	Interpret Inequality Statements	23	6.NS.7a Interpret statements of inequality as statements about the relative position of two numbers on a number line diagram.	
	12	Interpret Inequality Statements	24		
	A3	Assessment – Position Rational Numbers and Interpret Inequalities	A6	6.NS.6c, 6.NS.7a	
	13	Absolute Values	25	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. 6.NS.7d Distinguish comparisons of absolute value from statements about order.	
	14	Absolute Values	26		
	15	Real World Statements of Order	27	6.NS.7b: Write, interpret, and explain statements of order for rational numbers in real-world contexts.	
	16	Identify and Write Reflections of Ordered Pairs	28	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.	
	A4	Assessment – Absolute Values and Order	A7	6.NS.6b, 6.NS.7b, 6.NS.7c, 6.NS.7d	
	17	Plotting Points	29	6.NS.6c, 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.	
	18	Plotting Points	30		
	19	Plotting Points	31		
	20	Plotting Points	32		
	A5	Assessment – Plotting Points	A8		
	Performance Lesson – Find It on the Number Line				

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Ratios and Proportional Relationships	1	Concept of a Ratio	1	6.RP.1: Understand the concept of a ratio and use ratio language to describe a ratio relationship between two quantities.
	2	Part-to-Part and Part-to-Total	2	
	3	Part-to-Part and Part-to-Total	3	
	4	Equivalent Ratios	4	6.RP.3a
	A1	Assessment – Ratios	A1	6.RP.1, 6.RP.3a
	5	Ratio as Unit Rate	9	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.
	6	Unit Rates	10	6.RP.3b: Solve unit rate problems including those involving unit pricing and constant speed.
	7	Comparing Ratios	11	
	8	Unit Rates	12	
	A2	Assessment – Unit Rates	A3	6.RP.2, 6.RP.3b
	9	Solve Ratio Problems	13	6.RP.3: Use ratio and rate reasoning to solve real-world and mathematical problems... 6.RP.3b
	10	Solve Ratio Problems	14	
	11	Solve Ratio Problems	15	6.RP.3
	12	Solve Ratio Problems	16	
	A3	Assessment – Solve Ratio Problems	A4	6.RP.3, 6.RP.3b
Performance Lesson – Real-World Ratios				
Expressions and Equations	1	Exponents	1	6.EE.1: Write and evaluate numerical expressions involving whole-number exponents.
	2	Order of Operations	2	6.EE.1, 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). <i>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 $s = 1/2$.</i>
	3	Order of Operations	3	
	4	Order of Operations	4	
	A1	Assessment – Order of Operations	A1	
	5	Math Terminology	5	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.
	6	Writing Algebraic Expressions	6	6.EE.2a: Write expressions that record operations with numbers and with letters standing for numbers.
	7	Writing Algebraic Expressions	7	
	8	Writing Algebraic Expressions	8	6.EE.2a, 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.
	A2	Assessment – Math Terminology and Writing Algebraic Expressions	A2	6.EE.2a, 6.EE.2b, 6.EE.6
	9	Distributive Property	13	6.EE.3: Apply the properties of operations to generate equivalent expressions. <i>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 $3y$.</i>
	10	Distributive Property	14	
	11	Distributive Property	15	
	12	Distributive Property	16	
	A3	Assessment – Distributive Property	A4	
Performance Lesson – All About Expressions				

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Expressions and Equations	13	Identifying Equivalent Expressions	17	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).
	14	Dependent and Independent Variables	18	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.
	15	Dependent and Independent Variables	19	
	16	Dependent and Independent Variables	20	
	A4	Assessment – Equivalent Expressions / Dependent & Independent Variables	A5	6.EE.4, 6.EE.9
	17	Finding a Number that Makes an Equation True	29	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.
	18	Finding Values that Make Inequalities True	30	
	19	Understanding Properties to Solve Equations	31	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.
	20	Understanding Properties to Solve Equations	32	
	A5	Assessment – Solving Algebraic Equations	A8	6.EE.5, 6.EE.7
	21	Graph Inequalities	37	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.
	22	Translate Inequality Phrases	38	
	23	Translate Inequality Phrases	39	
	24	Write and Graph Inequalities from Real-world Scenarios	40	
	A6	Assessment – Working with Inequalities	A10	
Performance Lesson – Equations and Inequalities				