Standards Plus High Impact Standards - Mathematics - Grade 7

Domain	Lesson	Focus	Digital Lesson #	Standard(s)
Ratios & Proportional Relationships	1	Unit Rate	1	7.RP.1: Compute unit rates associated with ratios of fractions, including ratios of lengths, areas and other quantities measured in like or different units.
	2	Unit Rate	2	
	3	Unit Rate	3	
	4	Unit Rate	4	
	A1	Assessment – Unit Rate	A1	
		Performance Lesson – Using Unit Rates		
	5	Proportional Relationships	5	7.RP.2a: Decide whether two quantities are in a proportional relationship.
	6	Proportional Relationships	6	7.RP.2a, 7.RP.2b: Identify the constant of proportionality (unit rate) in tables, graphs, equations, diagrams, and verbal descriptions of proportional relationships.
ortic	7	Proportional Relationships	7	
rop	8	Proportional Relationships	8	
8 8 F	A2	Assessment – Proportional Relationships	A2	
atio	9	Proportional Relationships	9	7.00.0.7.00.0
122	10	Proportional Relationships	10	7.RP.2a, 7.RP.2b
	11	Multistep Ratio Problems	11	7.RP.3: Use proportional relationships to solve multi-step ratio and percent problems.
	12	Multistep Ratio Problems	12	
	A3	Assessment – Proportional Relationships	А3	7.RP.2a, 7.RP.2b, 7.RP.3
	1	Opposite Quantities on the Number Line	1	7.NS.1a: Describe situations in which opposite quantities combine to make 0.
	2	Opposite Quantities on the Number Line	2	
	3	Adding Rational Numbers on the Number Line	3	7.NS1.b: Understand $p+q$ as the number located a distance $ q $ from p , in the positive or negative direction depending on whether q is positive or negative. Show that a number and its opposite have a sum of 0 (are additive inverses). Interpret sums of rational numbers by describing real-world contexts.
	4	Adding Rational Numbers on the Number Line	4	
	A1	Adding Rational Numbers	A1	7.NS.1a, 7.NS.1b
:em	5	Adding Quantities on the Number Line	5	7.NS.1b
Syst	6	Subtraction and Additive Inverses	6	7.NS1c: Understand subtraction of rational numbers as adding the additive inverse, $p - q$
The Number System	7	Absolute Value on a Number Line	7	= p + (-q). Show that the distance between two rational numbers on the number line is the
Nu s	8	Absolute Value in Real-World Contexts	8	absolute value of their difference, and apply this principle in real-world contexts.
The	A2	Assessment – Adding and Subtracting Rational Numbers	A2	7.NS.1b, 7.NS.1b
	9	Multiplying Integers with Tiles	17	7.NS.2a: Understand that multiplication is
	10	Multiplying Integers on a Number Line	18	extended from fractions to rational numbers by requiring that operations continue to satisfy the properties of operations, particularly the distributive property, leading to products such as (-1)(-1) = 1 and the rules for multiplying signed numbers. Interpret products of rational numbers by describing real-world contexts.
	11	Integers and the Distributive Property	19	
	12	Products in Real-World Contexts	20	
	А3	Assessment – Multiplying Integers	A5	

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Domain	Lesson	Focus	Digital Lesson #	Standard(s)	
	13	Decimals and the Distributive Property	21	7.NS.2a	
	14	Multiplying Fractions	22	7.NS.2a, 7.NS.2b:	
	15	Dividing Rational Numbers	23	7.NS.2b: Understand that integers can be divided, provided that the divisor is not zero,	
	16	Dividing Rational Numbers	24	and every quotient of integers (with non-zero divisor) is a rational number. If p and q are integers, then $-(p/q) = (-p)/q = p/(-q)$. Interpret quotients of rational numbers by describing real world contexts.	
	A4	Assessment – Multiplying and Dividing Rational Numbers	A6	7.NS.2a, 7.NS.2b	
Ē	17	Multiplying Rational Numbers	25	7.NS.2c: Apply properties of operations as strategies to multiply and divide rational numbers.	
Syste	18	Dividing Rational Numbers	26		
The Number System	19	Converting Rational Numbers to Decimals	27	7.NS.2d: Convert a rational number to a decimal using long division; know that the decimal form of a rational number terminates in 0s or eventually repeats.	
. Nun	20	Converting Rational Numbers to Decimals	28		
The	A5	Assessment – Multiplying, Dividing and Converting Rational Numbers	A7	7.NS2c, 7.NS2d	
		Performance Lesson – Multiplying and Dividing Rational Numbers			
	21	Solving Problems Involving the Four Operations with Rational Numbers	29	7.NS3: Solve real-world and mathematical problems involving the four operations with rational numbers.	
	22	Solving Problems Involving the Four Operations	30		
	23	Solving Real-World Problems	31		
	24	Solving Real-World Problems	32		
	A6	Solving Real-World Problems	A8		
	1	Simplify Algebraic Expressions	1	7.EE.1: Apply properties of operations as strategies to add, subtract, factor, and expand linear expressions with rational coefficients.	
	2	Generate Equivalent Expressions	2		
S	3	Generate Equivalent Expressions	3		
ation	4	Generate Equivalent Expressions	4		
Equa	A1	Assessment – Generating Equivalent Expressions	A1		
s and	5	Factor Generate Equivalent Expressions	5	7.EE.1	
sions	6	Factor Generate Equivalent Expressions	6] [/] .LL.1	
Expressions and Equations	7	Expressions in Problem Situations	7	7.EE.2: Understand that rewriting an expression in different forms in a problem	
	8	Expressions in Problem Situations	8	context can shed light on the problem and how the quantities in it are related.	
	A2	Assessment – Use Properties of Operations to Generate Equivalent Expressions	A2	7.EE.1 & 7.EE.2	
		Performance Lesson – Working with Expressions			

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Domain	Lesson	Focus	Digital Lesson #	Standard(s)		
Expressions and Equations	9	Solve Multi-Step Real-Life Problems	9	7.EE.3: Solve multi-step real-life and mathematical problems posed with positive and negative rational numbers in any form (whole numbers, fractions, and decimals), using tools strategically. Apply properties of operations to calculate with numbers in any form; convert between forms as appropriate; and assess the reasonableness of answers using mental computation and estimation strategies.		
	10	Solve Multi-Step Real-Life Problems	10			
	11	Solve Multi-Step Real-Life Problems	11			
	12	Solve Multi-Step Real-Life Problems	12			
	A3	Assessment – Solving Multi-Step Real-Life Problems	A3			
	13	Solve Equations in the Form of $px + q = r$	17	7.EE.4a: Solve word problems leading to equations of the form $px + q = r$ and $p(x + q) = r$, where p , q , and r are specific rational numbers.		
	14	Solve Equations in the Form of $p(x+q) = r$	18			
	15	Solve Word Problems	19			
	16	Solve Word Problems	20			
	A4	Assessment – Solve Linear Equations and Word Problems	A5			
Expr		Performance Lesson – Equations				
	17	Solve Word Problems	21	7.EE.4a		
	18	Solve Linear Equations and Word Problems	22			
	19	Solve and Graph Solutions to Inequalities	23	7.EE.4b: Solve word problems leading to nequalities of the form $px + q > r$ or $px + q <$		
	20	Solve and Graph Solutions to Inequalities	24	r, where p , q , and r are specific rational numbers. Graph the solution set of the nequality and interpret it in the context of the problem.		
	A5	Assessment – Solve Equations and Inequalities	A6	7.EE.4a and 7.EE.4b		