

Grade: 7th Month: Sept/Oct

Content Area: Math: Pre-Algebra 1

Sub Content: Integers, Rational Numbers

What our students will know and be able to do	Learning Activities	Materials	Assessment tools	Notes
 Ch 1: Apply and extend previous understandings of addition, subtraction and absolute value to add and subtract rational numbers in authentic contexts. Understand subtraction as adding the additive inverse, p – q = p + (-q). Describe situations in which opposite quantities combine to make 0. Understand p + q as the number located a distance q from p, in the positive or 	 Ch 1 and 2: Guided notes Section Practice in R&P Journal Section exercises in the book IXL practice Practice HOs 	 Math spiral notebooks Big Ideas Red Accelerated: Textbook, Record & Practice Journal IXL 	 Grading: Section Quizzes IXL completed work (% given) Graded Chapter tests Mini assessments given after each section as informal assessment 	Practice HOs from TPT (freebies) OR self created

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	
depending on whether q is positive or negative. Show that a number and its opposite have a sum of 0 (are additive inverses).	
whether q is positive or negative. Show that a number and its opposite have a sum of 0 (are additive inverses).	
or negative. Show that a number and its opposite have a sum of 0 (are additive inverses).	
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its opposite have a sum of 0 (are additive inverses).	
sum of 0 (are additive inverses).	
additive inverses).	
rational numbers by	
describing real-world	
contexts.	
Apply properties of	
operations as	
strategies to add and	
subtract rational subtract rational	
numbers.	
Apply and extend	
previous	
understandings of	
multiplication and	
division and of	
fractions to	
multiply and divide	
rational numbers.	
Interpret operations	
of rational numbers	
solving	
problems in	
authentic contexts.	
Understand that	
integers can be	
divided, provided	
that the divisor is not	
zero, and every	
quotient of integers	
(with non-zero	
(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.			
• Ch 2:			
 Understand that 			
equivalent rational			
numbers can be			
written as fractions,			
decimals and			
percents.			
 Solve real-world and 			
mathematical			
problems involving			
the four operations			
with rational			
numbers.			
Apply properties of			
operations as			
strategies to multiply and divide rational			
numbers.			
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.			



Grade: 7th Month: Nov/Dec

Content Area: Math: Pre-Algebra 1

Sub Content: Expressions & Equations

What our students will know and be able to do	Learning Activities	Materials	Assessment tools	Notes
 Apply properties of operations as strategies to add, subtract, factor, and expand linear expressions with rational coefficients. Understand that rewriting an expression in different forms in a contextual problem can show how quantities are related. Solve real-life and mathematical problems using numerical and algebraic expressions and equations. Solve word problems leading to equations 	 Ch 3: Guided notes Section Practice in R&P Journal Section exercises in the book IXL practice Practice HOs 	 Math spiral notebooks Big Ideas Red Accelerated: Textbook, Record & Practice Journal IXL 	 Grading: Section Quizzes IXL completed work (% given) Graded Chapter tests Mini assessments given after each section as informal assessment 	Practice HOs from TPT (freebies) OR self created

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of the form $px + q = r$		
and $p(x + q) = r$,		
where p, q, and r are		
specific rational		
numbers. Solve		
equations of these		
forms fluently.		
Compare an		
algebraic solution to		
an arithmetic		
solution, identifying		
the sequence of the		
operations used in		
each approach.		
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Grade: 7th Month: Jan/Feb

Content Area: Math: Pre-Algebra 1

Sub Content: Inequalities

Ratios & Proportions

What our students will know and be able to do	Learning Activities	Materials	Assessment tools	Notes
 Solve word problems leading to inequalities of the form px+q>r or px+q<r, and="" are="" context="" graph="" in="" inequality="" interpret="" it="" li="" numbers.="" of="" p,="" problem.<="" q,="" r="" rational="" set="" solution="" specific="" the="" where=""> Compute unit rates associated with ratios of fractions, including ratios of lengths, areas and other quantities measured in like or different units. Recognize and represent </r,>	 Ch 4: Guided notes Section Practice in R&P Journal Section exercises in the book IXL practice Practice HOs Ch 5: Guided notes Section Practice in R&P Journal Section exercises in the book IXL practice Practice HOs 	 Math spiral notebooks Big Ideas Red Accelerated: Textbook, Record & Practice Journal IXL 	 Grading: Section Quizzes IXL completed work (% given) Graded Chapter tests Mini assessments given after each section as informal assessment 	Practice HOs from TPT (freebies) OR self created

proportional relationships between quantities. (RP.2: a, b, c, & d) Use proportional relationships to solve multistep ratio and percent problems.				
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Grade: 7th Month: March/April/May

Content Area: Math: Pre-Algebra 1

Sub Content: Percents

Constructions & Scale Drawings

Circles & Area

What our students will know and be able to do	Learning Activities	Materials	Assessment tools	Notes
 Use Proportional relationships to solve multistep ratio and percent problems. Solving multistep real-life and mathematical problems posed with positive and negative rational numbers in any form, using tools strategically. Apply properties of operations to calculate with numbers in any form; convert between forms as appropriate; and 	 Ch 6: Guided notes Section Practice in R&P Journal Section exercises in the book IXL practice Practice HOs Ch 7: Guided notes Section Practice in R&P Journal Section exercises in the book IXL practice Practice HOs Ch 8: Guided notes 	 Math spiral notebooks Big Ideas Red Accelerated: Textbook, Record & Practice Journal IXL 	 Grading: Section Quizzes IXL completed work (% given) Graded Chapter tests Mini assessments given after each section as informal assessment 	Practice HOs from TPT (freebies) OR self created

or sides, noticing when the conditions determine a unique triangle, more than one triangle,or no triangle. • Know the formulas for the area and circumference of a circle and use them to solve problems; give an informal derivation of the relationship between the circumference and are of a circle.	when the conditions determine a unique triangle, more than one triangle, or no triangle. • Know the formulas for the area and circumference of a circle and use them to solve problems; give an informal derivation of the relationship between the circumference	 Section Practice in R&P Journal Section exercises in the book IXL practice Practice HOs 			
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Use facts about supplementary, complementary, vertical, and adjacent angles in a multi-step problem to write and solve simple equations for an unknown angle in a figure.		
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