

Quarter I Curriculum G	ulae
Mathematical P	ractices
1. Make Sense of Problems and Persevere in Solving them	
2. Reasoning Abstractly & Quantitatively	
3. Construct Viable Arguments and Critique the Reasoning of Others	
4. Model with Mathematics	
5. Use Appropriate Tools Strategically	
6. Attend to Precision	
7. Look for and Make use of Structure	
8. Look for and Express Regularity in Repeated Reasoning	
Critical Areas of Focus Being Addressed:	
 Ratios and Proportions 	
 The Number System 	
 Modeling and Reasoning 	
Content Statements Addressed and Whether they are Knowledge,	Underpinning Targets Corresponding with Standards
Reasoning, Performance Skill, or Product:	and Whether they are Knowledge, Reasoning,
(DOK1) (DOK2) (DOK3) (DOK4)	Performance Skill, or Product: "I can", "Students Will
	Be Able To"
6.RP.1 Understand the concept of a ratio and use ratio language to	(DOK 1) I Can
describe a ratio relationship between two quantities. For example,	 Write ratio notation:, _ to, _/
"The ratio of wings to beaks in the bird house at the zoo was 2:1,	
because for every 2 wings there was one beak." "For every vote	Know order matters when writing a ratio Know
candidate A received, candidate C received nearly three votes."	ratios can be simplified

(DOK 2)	 Know ratios compare two quantities; the quantities do not have to be the same unit of measure Recognize that ratios appear in a variety of different contexts; part to-whole, part-to-part, and rates
	 DOK 2 I Can Generalize that all ratios relate two quantities or measures within a given situation in a multiplicative relationship. Analyze your context to determine which kind of ratio is represented
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." (DOK 2)	 DOK 1 I Can Identify and calculate a unit rate. Use appropriate math terminology as related to rate. DOK 2 I Can
	 Analyze the relationship between a ratio a:b and a unit rate a/b where b ≠ 0
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. (DOK 2)	 DOK 1 I Can Make a table of equivalent ratios using whole numbers. Find the missing values in a table of equivalent
a. 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	 Plot pairs of values that represent equivalent ratios on the coordinate plane.

ratios. b. 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? c. 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.	 Know that a percent is a ratio of a number to 100. Find a % of a number as a rate per 100. DOK 2 I Can Use tables to compare proportional quantities. Solve real-world and mathematical problems involving ratio and rate, e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations. Apply the concept of unit rate to solve real-world problems involving unit pricing. Apply the concept of unit rate to solve real-world problems involving constant speed. Solve real-world problems involving finding the whole, given a part and a percent. Apply ratio reasoning to convert measurement units in real-world and mathematical problems. Apply ratio reasoning to convert measurement units by multiplying or dividing in real world and mathematical problems.
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? (DOK 2)	 DOK 1 I Can Compute quotients of fractions divided by fractions (including mixed numbers). DOK 2 I Can Interpret quotients of fractions Solving word problems involving division of fractions by fractions, e.g., by using visual fraction models and equations to represent the problem.

6.NS.2 Fluently divide multi-digit numbers using the standard algorithm. (DOK 1)	 DOK 1 I Can Fluently divide multi-digit numbers using the standard algorithm with speed and accuracy
6.NS.3 Fluently add, subtract, multiply, and divide multi-digit decimals using the standard algorithm for each operation. (DOK 1)	 DOK 1 I Can Fluently add, subtract, multiply, and divide multi-digit decimals using the standard algorithm for each operation with speed and accuracy.
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 $4 (9 + 2)$. (DOK 2)	 DOK 1 I Can Identify the factors of two whole numbers less than or equal to 100 and determine the Greatest Common Factor. Identify the multiples of two whole numbers less than or equal to 12 and determine the Least Common Multiple.
	 DOK 2 I Can Apply the Distributive Property to rewrite addition problems by factoring out the Greatest Common Factor.