

2016 Mathematics Standards of Learning
Algebra Readiness Formative Assessment

6.1

1. Write equivalent ratios across each row. All fractions must be simplified.

Using a colon	Using the word “to”	Fraction Notation
5:9		
	3 to 12	
		$\frac{2}{7}$

2. Identify all of the ratios that could be used to represent the number of lawns to the number of hours in the following word problem.

John can mow 3 lawns in 6 hours

6:12	6 to 3	3 to 6	6:3	1:2
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3. Ms. Larson bought 4 red roses and 16 purple tulips for the front yard. What is the ratio of roses to the total number of flowers?
- A. 1:4
B. 4:1
C. 1:5
D. 4:5

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4. A pet store has 40 animals for sale and 15 of them are puppies! What is the ratio of animals that are *not* puppies to the total number of animals for sale at the pet store?
- A. $\frac{5}{8}$
 - B. $\frac{3}{8}$
 - C. $\frac{5}{3}$
 - D. $\frac{8}{5}$
5. At Centerville Middle School, there are 120 students in sixth grade, and 80 of those students are girls. What is the ratio of girls to boys in Centerville's sixth grade?
- A. 2 to 3
 - B. 3 to 2
 - C. 2 to 1
 - D. 1 to 2
6. Benjamin has 10 green marbles, 15 red marbles, and 5 yellow marbles in a box. What is the ratio of green marbles to all of the marbles in the box?
- A. $\frac{1}{3}$
 - B. $\frac{1}{2}$
 - C. $\frac{3}{1}$
 - D. $\frac{2}{1}$

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7. A restaurant sells 40 bowls of soup and 8 bowls of chili each day. What is the ratio of bowls of chili to bowls of soup?
- A. 1:5
- B. 1:4
- C. 1:3
- D. 2:5
8. The table shows the number of video games sold at Max's Electronics.

Video Games Sold at Max's Electronics on Saturday

Games	Number Sold
Baseball	12
Car Race	20
Soccer	15
War Zone	8

What is the ratio of War Zone games sold to Baseball games sold?

- A. 1 to 2
- B. 2 to 3
- C. 2 to 5
- D. 3 to 4