

## Ratios Review

1. There are 4 sharks and 5 dolphins. Write the ratio of sharks to dolphins. Then find and interpret the value of the ratio.

The ratio of sharks to dolphins is  : .

The value of the ratio is .

Select the correct answer.

- The number of sharks is  $\frac{4}{5}$  times the number of dolphins.
- The number of sharks is  $\frac{5}{4}$  times the number of dolphins.

Grade 6 Accel: FL 2023>Chapter 8>Section 8.1: Ratios>8.1: In-Class Practice (7 - 12)> Question #7

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2. There are 4 sharks and 5 dolphins. Write the ratio of dolphins to animals. Then find and interpret the value of the ratio.

The ratio of dolphins to animals is  : .

The value of the ratio is .

Select the correct answer.

- The number of dolphins is  $\frac{5}{9}$  times the number of animals.
- The number of dolphins is  $\frac{9}{5}$  times the number of animals.

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3. Determine whether the ratios are equivalent.

2 : 3 and 24 : 36

- Equivalent
- Not equivalent

Explain your reasoning.

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4. Write the ratio.

calculators : pencils



The ratio of calculators : pencils is  : .

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5. Determine whether the ratios are equivalent.

6 : 10 and 12 : 20

- equivalent  
 not equivalent

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6. Determine whether the ratios are equivalent.

2 : 3 and 4 : 5

- equivalent  
 not equivalent

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7. Determine whether the ratios are equivalent.

28 : 32 and 7 : 8

- equivalent  
 not equivalent

Grade 6 Accel: FL 2023>Chapter 8>Section 8.1: Ratios>8.1: Practice (11 - 47)> Question #30

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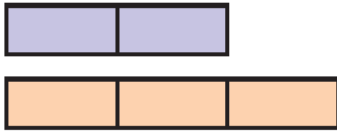
8. **STRUCTURE** Fill in the blank so that the ratios are equivalent.

3 : 9 and 6 :

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9. **STRUCTURE** What ratio is represented by the tape diagram?



The ratio represented by the tape diagram is  : .

Can you use the tape diagram to model the ratio 6 : 9?

- Yes  
 No

Can you use the tape diagram to model the ratio 8 : 16?

- Yes  
 No

Explain your reasoning.

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Grade 6 Accel: FL 2023>Chapter 8>Section 8.2: Using Tape Diagrams>8.2: In-Class Practice (4 - 8)> Question #4

10. There are 35 tickets in a bag and the ratio of winning tickets to losing tickets is 1 to 4. How many of each kind of ticket are in the bag?

- winning tickets  
 losing tickets

Grade 6 Accel: FL 2023>Chapter 8>Section 8.2: Using Tape Diagrams>8.2: In-Class Practice (4 - 8)> Question #7

11. The tape diagram models the lengths of two snowboarding trails. The combined length of the trails is 2000 meters. How long is each trail?



The beginner trail is  meters.

The expert trail is  meters.

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12. A bag contains 6 red marbles. The ratio of red marbles to blue marbles is 2 for every 5. Find the number of blue marbles in the bag.

- blue marbles

Grade 6 Accel: FL 2023>Chapter 8>Section 8.2: Using Tape Diagrams>8.2: Practice (9 - 32)> Question #18

13. You buy 10 pounds of grass seed at Store  $A$  for \$11.50. Your friend buys 15 pounds of grass seed at Store  $B$  for \$19.50. How much less would you spend by buying 20 pounds of grass seed at the store with the better deal?

With the better deal, you spend \$  less.

Grade 6 Accel: FL 2023>Chapter 8>Section 8.2: Using Tape Diagrams>8.2: In-Class Practice (9 - 11)> Question #6

14. A person hikes 4 miles in 2.5 hours. Find the unit rate in miles per hour.

mi/h

Then find the unit rate in hours per mile.

h/mi

How is each unit rate useful in a real-life situation?

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Grade 6 Accel: FL 2023>Chapter 8>Section 8.2: Using Tape Diagrams>8.2: In-Class Practice (9 - 11)> Question #7

15. Find the missing values in the ratio table. Then write the equivalent ratios.

<b>Fruit</b>	2	<input type="text"/>	6
<b>Vegetables</b>	6	12	<input type="text"/>

The equivalent ratios are  $2 : 6$ ,  $\square : 12$ , and  $6 : \square$ .

Grade 6 Accel: FL 2023>Chapter 8>Section 8.3: Using Ratio Tables>8.3: In-Class Practice (6 - 8)> Question #6

16. **REASONING** The ratio of three numbers is  $4 : 5 : 3$ . The sum of the numbers is 54. List the numbers in ratio form.

The numbers are  :  : .

Grade 6 Accel: FL 2023>Chapter 8>Section 8.3: Using Ratio Tables>8.3: Practice (13 - 40)> Question #36

17. **REASONING** You and a classmate have an insect collection for science class. You find 5 out of every 9 insects in the collection. You find 4 more insects than your classmate. How many insects are in the collection?

There are  insects in the collection.

Grade 6 Accel: FL 2023>Chapter 8>Section 8.3: Using Ratio Tables>8.3: Practice (13 - 40)> Question #38

18. **MODELING REAL LIFE** You jog 2 kilometers in 12 minutes. Your friend jogs 3 kilometers in 16.5 minutes. Who jogs faster?

- You jog faster.
- Your friend jogs faster.

How much sooner will the faster jogger finish a five-kilometer race?

The faster jogger will finish a five-kilometer race  minutes sooner than the slower jogger.

Grade 6 Accel: FL 2023>Chapter 8>Section 8.4: Rates and Unit Rates>8.4: Practice (13 - 38)> Question #35

19. Complete the statement.

$$\frac{36 \text{ m}}{\text{min}} = \frac{\square \text{ km}}{\text{h}} = \frac{\square \text{ mm}}{\text{sec}}$$

Grade 6 Accel: FL 2023>Chapter 8>Section 8.6: Converting Measures within Systems>8.6: Practice (13 - 63)> Question #58

20. **REASONING** A runner completed a 26.2-mile marathon in 210 minutes.

- a. Estimate the unit rate, in miles per minute. Round your answer to the nearest hundredth.

The unit rate is about  mile per minute.


- b. Estimate the unit rate, in minutes per mile. Round your answer to the nearest tenth.

The unit rate is about  minutes per mile.

- c. Another runner says, "I averaged 10-minute miles in the marathon." Is this runner talking about the unit rate described in part (a) or in part (b)?

The runner is talking about the rate in .

Explain your reasoning.

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Grade 6 Accel: FL 2023>Chapter 8>Section 8.4: Rates and Unit Rates>8.4: Practice (13 - 38)> Question #37