

Name: _____

Ms. Napolitano

Date: _____

Activity: 5.1

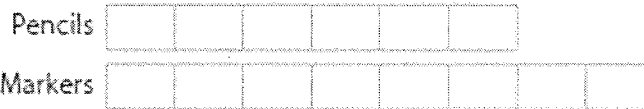
Topic: Ratios

I can understand the concept of a ratio as a way of expressing relationships between quantities. I can write a ratio to describe the relationship between two quantities.

Homework

Solve the problems.

- 1 Alicia has pencils and markers as shown in the tape diagram. Write the ratio of markers to pencils in three different ways.



Be sure the terms in each ratio are in the correct order.



- 2 Kenny has 2 red marbles, 3 blue marbles, and 4 black marbles. Which ratio compares a part to the whole?

- | | |
|----------|----------|
| A 2 to 7 | C 5 to 4 |
| B 3 : 9 | D 9 : 5 |

The whole in this problem is the total of the red, blue, and black marbles.



- 3 Mrs. Adams buys 4 bananas and 6 apples. Tell whether each statement is *True* or *False*.

- | | | |
|---|-------------------------------|--------------------------------|
| a. The ratio of bananas to apples is 6 : 4. | <input type="checkbox"/> True | <input type="checkbox"/> False |
| b. The ratio of apples to total fruit is 10 to 6. | <input type="checkbox"/> True | <input type="checkbox"/> False |
| c. The ratio of bananas to total fruit is 4 to 10. | <input type="checkbox"/> True | <input type="checkbox"/> False |
| d. The ratio of total fruit to apples is $\frac{6}{10}$. | <input type="checkbox"/> True | <input type="checkbox"/> False |

Does the ratio compare part to part or part to whole?



Solve.

- 4 For his exercise last weekend, Benito walked 5 miles and jogged 2 miles. What is the ratio of the miles walked to the total number of miles of exercise?

- A 5 to 2 C 5 : 7
B 2 : 7 D 7 to 5

Elsa chose A as the correct answer. How did she get that answer?

Are you finding a ratio that compares part to part or part to whole?



- 5 The ratio of boys to girls in Mr. Smith's class is 3 : 2. Which statement is correct? Circle all that apply.

- A For every 3 boys, there are 2 girls.
B For every 2 boys, there are 3 girls.
C There are exactly 5 students in Mr. Smith's class.
D The ratio of the number of boys in the class to the total number of students is 3 : 5.
E The ratio of the number of students in the class to the number of girls is 5 to 2.

Does the statement describing the ratio match the numerical ratio given in the problem?



- 6 Kelly buys a hat and gloves. The price of the hat is 4 times as much as the gloves. The hat costs \$8. What is the ratio of the cost of the gloves to the total cost for both items?

Show your work.

How can you find the cost of the gloves?



Solution: _____

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Activity 5.2

Topic: Unit Rate

I can understand the concept of unit rate.

Homework

Solve the problems.

1 Patrick paid \$4.00 for 5 organic peaches. How much did he pay per peach?

- A \$2.00 per peach
- B \$1.25 per peach
- C \$0.80 per peach
- D \$0.20 per peach

2 Zoe watched 6 episodes of her favorite online video series in 1.5 hours. She spent the same amount of time watching each episode. What is the unit rate of hours to episodes?

Show your work.

Answer: _____

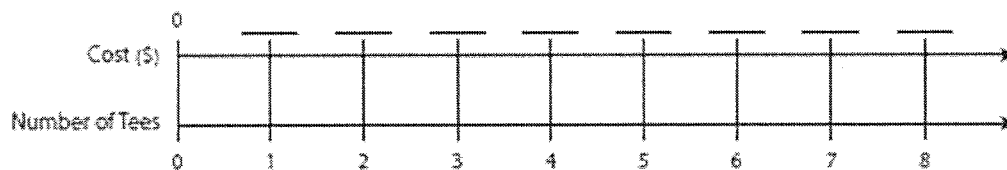
3 Deena drove 585 miles in 9 hours. Kristen drove 605 miles in 11 hours. Who drove at a faster rate?

Fill in the blanks to compare the rates of speed for Deena and Kristen.

_____’s rate is _____ miles per hour faster than _____’s rate.

- 4 Tariq is comparing the prices of various packages of golf tees at a sporting goods store. He finds a package of 8 golf tees that costs \$2.00.

Complete the double number line to find the relationship between the number of golf tees in Tariq's package and each corresponding cost.



- 5 Jacob bought 7 T-shirts for \$32.90. Kyle bought 12 T-shirts for \$60.00.

Part A

Kyle says that he paid less per T-shirt than Jacob. Is Kyle correct?

Explain your answer.

Part B

Brendan found a store online where he can buy a package of 8 T-shirts. These T-shirts sell at the same rate as the T-shirts Jacob bought. How much does Brendan pay for the package of 8 T-shirts?

Show your work.

Answer: \$ _____
