

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** A recipe uses 5 cups of water, 3 cups of rice, and 1 cup of black beans. What is the ratio of cups of rice to cups of water?
- A 3:9  
B 5 to 3  
C 1 to 3  
D 3:5

- 2** Nora has a flower arrangement with 7 pink flowers, 9 purple flowers, and 5 white flowers. Write a word from the box in each blank to compare the quantities using ratios. Answer choices may be used more than once.

pink	purple	white	total
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The ratio of \_\_\_\_\_ flowers to \_\_\_\_\_ flowers is  $\frac{5}{9}$ .

The ratio of \_\_\_\_\_ flowers to \_\_\_\_\_ flowers is 9 to 21.

The ratio of \_\_\_\_\_ flowers to \_\_\_\_\_ flowers is 21:7.

- 3** Lisa goes to school 7 hours per day, works 3 hours per day, and sleeps for 8 hours per day. What is the ratio of hours Lisa works to hours Lisa sleeps?

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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?

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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: \_\_\_\_\_