# Ratios, Rates and Proportions - Review Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1) Determine if each pair of ratios forms a proportion. Show your work.

  and   and   and 

2) A local restaurant purchased 45 pounds of flour at a total cost of

 $38.25. Determine the unit cost per pound.

**Write each ratio as a fraction in simplest form.**

3) 48 : 76 4) 20 inches to 4 feet

Find each unit rate. Round your answer to the hundredth place

5)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 640 miles in 25 hours

6)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ $30.50 for 32 ounces of specialty cooking oil

7. Solve for the missing number in each proportion.

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8) Use a proportion to determine whether or not the two items below

 contain an equal proportion of fat.

 **Steak**: A 20 ounce steak contains 6 ounces of fat.

 **Hamburger:** A 6 ounce hamburger contains 0.75 ounces of fat.

13) A 12 ounce can of Coke costs $0.50 when purchased from the soda

machine at the school. An 18 ounce bottle of Pepsi from the soda

 machine at the local gas station costs $1.25. Find the unit cost of each

 to determine which location has the less expensive soda per ounce?

14) The ratio of boys to girls at the dance was 9 to 5. How many girls were

 at the dance if there were 85 girls at the dance?

15) The ratio of teachers to students in a school is 2 to 45. How many

 teachers are in the school if there is a total of 1410 students and

 teachers altogether in the school?

In 1967, a 30-second Super Bowl commercial cost $40,000. In 2000, a 30-second commercial cost $1,800,000. What was the percent of change in the cost of a commercial?

Marlis had 765 cards in her baseball collection. She sold 153 of the cards to purchase a new iPod. What is the percent of change in the number of Marlis’ baseball card collection?

A manufacturing company with 450 employees begins a new product line and must increase their number of employees by 18%. How many total employees does the company now have?