

Unit 2: Ratios, Rates, and Percentages

PRACTICE

Name: _____ Date: _____

Solve each problem. Show your work if needed, and write your final answer in simplest form.

1. A recipe uses 3 cups of flour for every 2 cups of sugar. Write the ratio of flour to sugar. If you use 12 cups of flour, how many cups of sugar do you need?

Answer: _____

3. Write the ratio 15:20 in simplest form.

Answer: _____

5. What is 25% of 80?

Answer: _____

7. A printer prints 45 pages in 5 minutes. How many pages does it print in 8 minutes at the same rate?

Answer: _____

9. Find the number that makes the ratios equivalent: $\frac{4}{6} = \frac{n}{18}$. What is n ?

Answer: _____

11. 18 is what percent of 60?

Answer: _____

2. A car travels 150 miles in 3 hours at a constant speed. What is the unit rate in miles per hour?

Answer: _____

4. A store sells 8 apples for \$4. At this rate, what is the cost of 1 apple in dollars?

Answer: _____

6. In a class the ratio of boys to girls is 3:5. If there are 24 students total, how many are girls?

Answer: _____

8. A shirt that normally costs \$40 is on sale for 15% off. What is the amount of the discount in dollars?

Answer: _____

10. A recipe calls for 2 cups of water for every 5 cups of rice. How many cups of water are needed for 20 cups of rice?

Answer: _____

12. A grocery store sells a 12-ounce box of cereal for \$3.60. What is the unit price in dollars per ounce?

Answer: _____