

Unit 2: Ratios, Rates, and Percentages

PRACTICE • SET 2

Name: _____ Date: _____

Solve each problem. Show your work where helpful, and write your final answer in the blank. Use double number lines, tables, or tape diagrams to help you think.

1. A recipe uses 3 cups of flour for every 2 cups of sugar. Write the ratio of flour to sugar in the form $a:b$ using these exact numbers.

Answer: _____

2. The ratio of dogs to cats at a shelter is 4:5. If there are 20 dogs, how many cats are there?

Answer: _____

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

Answer: _____

4. 8 pencils cost \$2.00. What is the cost of 1 pencil, in dollars?

Answer: _____

5. Complete the equivalent ratio: $\frac{2}{5} = \frac{?}{20}$. What number replaces the question mark?

Answer: _____

6. A juice mix uses 6 ounces of concentrate for every 30 ounces of water. How many ounces of water are needed for 8 ounces of concentrate?

Answer: _____

7. What is 25% of 80?

Answer: _____

8. 15 is what percent of 60? Give the answer as a number (the percent).

Answer: _____

9. A shirt costs \$40. It is on sale for 30% off. What is the amount of the discount, in dollars?

Answer: _____

10. A printer prints 90 pages in 6 minutes at a constant rate. How many pages does it print in 1 minute?

Answer: _____

11. 40% of a number is 24. What is the number?

Answer: _____

12. The ratio of red to blue marbles is 3:7, and there are 30 marbles in total. How many are blue?

Answer: _____