

Unit 9: Putting It All Together

PRACTICE • SET 2

Name: _____ Date: _____

Solve each problem and write your final answer in simplest form.

1. A recipe uses flour and sugar in the ratio 3 cups flour to 2 cups sugar. How many cups of flour are needed for 10 cups of sugar?

Answer: _____

3. Multiply: $\frac{3}{4} \times \frac{8}{9}$. Write the answer in simplest form.

Answer: _____

5. Evaluate the expression $3x + 7$ when $x = 5$.

Answer: _____

7. Add the rational numbers: $-8 + 15$.

Answer: _____

9. Point A is located at (3, -4). It is reflected across the x-axis. What are the coordinates of the reflected point? Write as (x, y).

Answer: _____

11. Write the ratio 18:24 in simplest form.

Answer: _____

2. A car travels 180 miles in 3 hours at a constant speed. What is its speed in miles per hour?

Answer: _____

4. Divide: $\frac{5}{6} \div \frac{2}{3}$. Write the answer in simplest form.

Answer: _____

6. Evaluate using order of operations: $2^3 + 4 \times 5$.

Answer: _____

8. What is 25% of 80?

Answer: _____

10. Combine like terms to simplify: $5x + 3 - 2x + 7$.

Answer: _____

12. Use the distributive property to expand: $6(2x + 5)$.

Answer: _____