

Unit 3: Multiplying and Dividing Fractions

ADVANCED · SET 2

Name: _____ Date: _____

Solve each problem. Simplify every fraction to lowest terms and write whole-number answers as whole numbers. Show work on scratch paper.

1. Multiply and write the product in lowest terms:

$$8/9 \times 15/16$$

Answer: _____

2. A ribbon is 12 meters long. How many $1/6$ -meter pieces can be cut from it? Compute $12 \div 1/6$.

Answer: _____

3. Divide a unit fraction by a whole number: $1/5 \div 4$

Answer: _____

4. Evaluate the multi-step expression: $3/4 \times 2/9 \times 6$

Answer: _____

5. Multiply the three fractions and simplify: $5/6 \times 3/10 \times 4/7$

Answer: _____

6. Evaluate: $(15 \div 1/3) - (8 \div 1/4)$

Answer: _____

7. Multiply the mixed number by the fraction and write the product in lowest terms: $2 \frac{3}{5} \times 1/4$

Answer: _____

8. A rectangular garden is $7/8$ of a meter long and $4/5$ of a meter wide. What is its area in square meters (as a fraction in lowest terms)? Compute $7/8 \times 4/5$.

Answer: _____

9. Divide the unit fraction by the whole number and simplify: $1/6 \div 3$

Answer: _____

10. A recipe uses $1/8$ cup servings. How many servings are in 9 cups? Compute $9 \div 1/8$.

Answer: _____

11. Evaluate the multi-step expression, simplifying the product first: $(5/12 \times 9/10) \div 3$

Answer: _____

12. Evaluate the combined expression: $20 \div 1/4 \times 3/8$

Answer: _____