

Unit 3: Multiplying and Dividing Fractions

ADVANCED

Name: _____ Date: _____

Solve each problem. Simplify every fraction fully and write whole-number answers without a fraction bar. Show your work on scratch paper.

1. Multiply, simplifying as you go: $(\frac{3}{4} \times \frac{8}{9}) \times \frac{5}{6}$

Answer: _____

2. Evaluate: $7 \div \frac{1}{3} - 2 \div \frac{1}{5}$

Answer: _____

3. First multiply, then divide: $(\frac{2}{3} \times \frac{9}{10}) \div \frac{1}{4}$

Answer: _____

4. Multiply the two fractions, then multiply by the whole number: $\frac{5}{8} \times \frac{2}{15} \times 12$

Answer: _____

5. Add inside the parentheses first, then multiply: $(\frac{1}{2} + \frac{1}{3}) \times \frac{6}{5}$

Answer: _____

6. Evaluate: $4 \div \frac{1}{6} + 3 \div \frac{1}{8}$

Answer: _____

7. Multiply all three fractions, simplifying as you go: $\frac{9}{10} \times \frac{25}{27} \times \frac{4}{5}$

Answer: _____

8. First multiply, then divide: $(\frac{7}{12} \times 8) \div \frac{1}{3}$

Answer: _____

9. Multiply the three fractions and simplify: $\frac{2}{9} \times \frac{3}{4} \times \frac{6}{7}$

Answer: _____

10. Evaluate: $10 \div \frac{1}{4} - \frac{5}{6} \times 12$

Answer: _____

11. Evaluate: $(\frac{5}{6} \times \frac{3}{10}) \times (8 \div \frac{1}{2})$

Answer: _____

12. Evaluate: $(\frac{3}{5} \times 20) \div \frac{1}{2} + \frac{1}{4} \times 8$

Answer: _____