

Unit 3: Fractions and Decimals

ADVANCED

Name: _____ Date: _____

Show all work and give each answer as an exact number, fraction in lowest terms, or short value.

1. Compute $(7/8) \div (5/6)$ and write the answer as a fraction in lowest terms.

Answer: _____

2. Compute $(3/4) \div (9/10) \div (5/6)$. Give the answer as a fraction in lowest terms.

Answer: _____

3. A recipe needs $2/3$ cup of flour per batch. You have 4 and $1/2$ cups of flour. How many full batches can you make? (Give the exact number of full batches.)

Answer: _____

4. Compute $45.6 \div 0.75$. Give the exact decimal answer.

Answer: _____

5. Compute 12.4×3.05 and give the exact decimal answer.

Answer: _____

6. Compute $7.2 \div 0.9 + 3.8 \times 2.5$. Give the exact decimal answer.

Answer: _____

7. A wire is 15.75 meters long and is cut into pieces each 0.35 meters long. How many pieces are produced?

Answer: _____

8. Evaluate $(5 \text{ and } 1/4) \div (2 \text{ and } 1/3)$. Give the answer as a fraction in lowest terms.

Answer: _____

9. Compute $(0.6 + 0.45) \div (1.5 - 0.75)$. Give the exact decimal answer.

Answer: _____

10. A tank holds 9 and $3/8$ liters. It is drained into bottles that each hold $5/8$ liter. How many bottles are filled?

Answer: _____

11. Evaluate $(8/9 - 1/3) \div (5/6)$. Give the answer as a fraction in lowest terms.

Answer: _____