

Unit 2: Fractions as Quotients and Fraction Multiplication

ADVANCED · SET 2

Name: _____ Date: _____

Show all your work. Write every answer as a whole number or as a fraction in simplest form (like $\frac{3}{4}$). Improper fractions are fine.

1. A 47-meter rope is cut into 6 equal pieces. Write the length of each piece as a fraction of a meter in simplest form.

Answer: _____

3. Multiply and write the product in simplest form: $\frac{3}{4} \times \frac{5}{6}$.

Answer: _____

5. 34 kilograms of rice are shared equally among 8 bags. Write the number of kilograms in each bag as a fraction in simplest form.

Answer: _____

7. Multiply the three fractions and write the product in simplest form: $\frac{2}{3} \times \frac{3}{5} \times \frac{10}{9}$.

Answer: _____

9. Multiply the three fractions and write the product in simplest form: $\frac{4}{9} \times \frac{7}{8} \times \frac{6}{5}$.

Answer: _____

11. Multiply and write the product in simplest form: $\frac{11}{12} \times \frac{8}{33}$.

Answer: _____

2. A recipe calls for $\frac{7}{8}$ of a 56-gram block of chocolate. How many grams of chocolate does the recipe use?

Answer: _____

4. Multiply and write the product in simplest form: $\frac{5}{12} \times \frac{8}{15}$.

Answer: _____

6. Multiply: $9 \times \frac{5}{12}$. Write the product as a fraction in simplest form.

Answer: _____

8. Multiply and write the product in simplest form: $\frac{7}{10} \times \frac{25}{14}$.

Answer: _____

10. 100 identical cookies are divided equally among 8 boxes. Write the number of cookies in each box as a fraction in simplest form.

Answer: _____

12. A jar holds 200 marbles. First take $\frac{2}{5}$ of the marbles, then take $\frac{3}{4}$ of that amount. How many marbles is that?

Answer: _____