

Unit 3: Multiplying and Dividing Fractions

ADVANCED · SET 4

Name: _____

Date: _____

Solve each problem and write your answer in simplest form (use fractions like $\frac{3}{4}$, not decimals).

1. Multiply: $\frac{3}{4} \times \frac{8}{15} \times \frac{5}{6}$

Answer: _____

3. A roll of kite string is 15 meters long. Priya cuts it into pieces that are each $\frac{1}{8}$ meter long. How many pieces does she get?

Answer: _____

5. A cooler holds 12 liters of lemonade. A team drinks $\frac{2}{3}$ of it. The rest is poured into $\frac{1}{8}$ -liter cups with none left over. How many cups are filled?

Answer: _____

7. $\frac{1}{4}$ of a bag of birdseed is shared equally among 10 feeders. Then the seed in one feeder is split equally into 3 small scoops. What fraction of the whole bag is one scoop?

Answer: _____

9. A rope is $\frac{9}{10}$ meter long. Kai cuts off $\frac{5}{9}$ of the rope, then cuts that piece into 4 equal parts. How long is each part, in meters?

Answer: _____

2. A recipe needs $2\frac{5}{8}$ cups of oat flour. Sam makes only $\frac{4}{7}$ of the recipe. How many cups of oat flour does he use?

Answer: _____

4. Divide: $\frac{1}{6}$ divided by 9

Answer: _____

6. Maya has $\frac{7}{8}$ of a pizza left. She gives $\frac{4}{7}$ of that leftover pizza to her cousins. What fraction of a whole pizza did she give away?

Answer: _____

8. Is $\frac{5}{8} \times \frac{6}{7}$ greater than $\frac{1}{2}$? Answer yes or no.

Answer: _____

10. A chef starts with 20 cups of batter. He uses 5 cups for a cake and pours all the rest into molds that hold $\frac{1}{6}$ cup each. How many molds does he fill?

Answer: _____

11. A sticker is a rectangle $\frac{7}{10}$ centimeter long and $\frac{5}{9}$ centimeter wide. What is its area in square centimeters?

Answer: _____

12. A number times $\frac{4}{9}$ equals $\frac{8}{45}$. What is the number?

Answer: _____