

Unit 2: Fractions as Quotients and Fraction Multiplication

ADVANCED · SET 4

Name: _____ Date: _____

Solve each problem and write your answer in simplest form; show your work on scrap paper.

1. A bakery divides 58 kg of dough equally into 12 loaves. How many kilograms of dough are in each loaf? Write your answer as a mixed number in simplest form.

Answer: _____

3. Four identical bottles hold 7 liters of water in all. How many liters do 3 of these bottles hold? Write your answer as a mixed number in simplest form.

Answer: _____

5. A fish tank holds 92 liters when full. Right now it is $\frac{3}{8}$ full. How many liters of water are in the tank? Write your answer as a mixed number.

Answer: _____

7. Nine friends share 5 whole pizzas equally. Mia eats $\frac{2}{3}$ of her share. What fraction of ONE whole pizza did Mia eat?

Answer: _____

9. A class has 40 students. Exactly $\frac{3}{5}$ of them are in the choir, and $\frac{5}{8}$ of the choir members also play the recorder. How many students play the recorder?

Answer: _____

2. A 3 m ribbon is cut into 8 equal pieces. Leo tapes 5 of those pieces end to end. How long is Leo's taped ribbon, in meters? Write your answer as a mixed number in simplest form.

Answer: _____

4. A theater has 640 seats. On Friday night, $\frac{15}{16}$ of the seats were filled. How many seats were filled?

Answer: _____

6. A school garden takes up $\frac{10}{9}$ of an acre. Beans grow on $\frac{2}{5}$ of the garden, and $\frac{3}{4}$ of the bean section is staked. What fraction of an acre is the staked part? (Compute $\frac{2}{5} \times \frac{3}{4} \times \frac{10}{9}$.) Write your answer in simplest form.

Answer: _____

8. A rectangular tile is $\frac{7}{9}$ m long and $\frac{6}{7}$ m wide. What is its area in square meters? Write your answer in simplest form.

Answer: _____

10. A farmer has 84 acres. She plants corn on $\frac{4}{7}$ of the land. Then she plants beans on $\frac{2}{3}$ of the land that is LEFT. How many acres of beans does she plant?

Answer: _____

11. Is $\frac{7}{8} \times 96$ greater than $\frac{5}{6} \times 108$? Answer yes or no.

Answer: _____

12. Twelve cups of batter are poured equally into 5 pans. Each pan then uses $\frac{3}{4}$ of its batter in the first bake. How many cups of batter does one pan use in the first bake? Write your answer as a mixed number in simplest form.

Answer: _____