

Unit 2: Fractions as Quotients and Fraction Multiplication

ADVANCED · SET 3

Name: _____ Date: _____

Show your work for each problem. Write every answer in simplest form, using a mixed number when the answer is greater than 1.

1. A swim club pours 58 liters of lemonade equally into 12 coolers. How many liters go into each cooler? Write your answer as a mixed number in simplest form.

Answer: _____

3. A rainwater tank holds 132 liters when it is completely full. Right now it is $\frac{5}{8}$ full. How many liters of water are in the tank? Write your answer as a mixed number.

Answer: _____

5. Which product is greater: $\frac{3}{4} \times \frac{5}{6}$ or $\frac{5}{6} \times \frac{2}{3}$? Write the greater product in simplest form.

Answer: _____

7. Priya read 87 pages of her book. That is $\frac{3}{5}$ of the whole book. How many pages are in the whole book?

Answer: _____

9. One batch of granola needs $\frac{3}{4}$ cup of oats. Aisha wants to make 14 batches, but she only has 8 cups of oats. How many more cups of oats does she need?

Answer: _____

2. Three small pizzas are shared equally among 8 campers. Theo eats $\frac{2}{3}$ of his share. What fraction of ONE whole pizza did Theo eat?

Answer: _____

4. In a school choir, $\frac{9}{10}$ of the singers came to rehearsal. Of the singers who came, $\frac{5}{6}$ stayed for the whole hour. Of those who stayed the whole hour, $\frac{2}{3}$ sang a solo. What fraction of the whole choir sang a solo?

Answer: _____

6. A 34-meter rope is cut into 8 equal pieces. Then each of those pieces is cut exactly in half. How long is one of the small pieces, in meters?

Answer: _____

8. A garden bed is $\frac{7}{8}$ meter wide and $12\frac{2}{3}$ meters long. What is its area in square meters?

Answer: _____

10. A 250-centimeter ribbon is shared equally among 16 students. How many centimeters of ribbon does each student get? Write your answer as a mixed number.

Answer: _____

11. Malik practices piano for 45 minutes. He spends $\frac{2}{5}$ of that time on scales, and then $\frac{1}{3}$ of the remaining time on a new song. How many minutes does he spend on the new song?

Answer: _____

12. A snail crawls $\frac{5}{6}$ of a meter each hour at a steady speed. How far does it crawl in $3\frac{3}{4}$ hours?

Answer: _____