

Unit 6: More Decimal and Fraction Operations

ADVANCED · SET 2

Name: _____ Date: _____

Solve each problem. Show your work on scratch paper and write your final answer in simplest form.

1. A recipe needs $\frac{3}{4}$ cup of flour per batch. Maria makes 2 and $\frac{2}{3}$ batches. How many cups of flour does she use in all?

Answer: _____

3. The masses of 6 rocks are $\frac{1}{2}$ kg, $\frac{3}{4}$ kg, $\frac{1}{2}$ kg, 1 kg, $\frac{3}{4}$ kg, and $\frac{1}{4}$ kg. What is the total mass in kilograms?

Answer: _____

5. A board 6 feet long is cut into pieces that are each $\frac{3}{4}$ foot long. Each cut wastes 0 feet. How many pieces are produced?

Answer: _____

7. A container has 4 and $\frac{1}{2}$ kg of sugar. A baker uses $\frac{2}{3}$ of it. How many kilograms of sugar are used?

Answer: _____

9. A pitcher holds 1.75 liters of juice. It is poured equally into cups that each hold $\frac{7}{20}$ liter. How many cups are filled?

Answer: _____

2. A ribbon is 4.75 meters long. Jon cuts off pieces that are each $\frac{3}{8}$ meter long. How many whole pieces can he cut, and how many meters are left over? Give the leftover in meters as a decimal.

Answer: _____

4. A tank holds 2.5 liters. Water is poured out in scoops of $\frac{5}{8}$ liter each. After 3 scoops are removed, how many liters remain in the tank?

Answer: _____

6. Sam runs 1.2 km on Monday, $\frac{3}{4}$ km on Tuesday, and 850 meters on Wednesday. What is his total distance in meters?

Answer: _____

8. Five ropes measure $\frac{1}{4}$ m, $\frac{5}{8}$ m, $\frac{3}{8}$ m, $\frac{1}{2}$ m, and $\frac{3}{4}$ m. What is the difference in meters between the longest and shortest rope?

Answer: _____

10. A wall is 3 and $\frac{1}{3}$ meters wide. Tiles are each $\frac{5}{6}$ meter wide. How many tiles fit across the wall exactly?

Answer: _____

11. The weights of 4 packages are 1.5 kg, $\frac{3}{4}$ kg, 2 and $\frac{1}{4}$ kg, and 0.5 kg. What is the average weight in kilograms as a decimal?

Answer: _____