

Grade 8 Ratios & Proportions Word Problems

Ratios & Proportions • Grade 8 • Word Problems • Set C

Name: _____

Date: _____

Read each problem carefully. Show your work, then write your answer on the line.

1. 7 notebooks cost \$56.00. What is the cost of 10 notebooks?

2. A store is offering a 25% discount on a backpack that originally costs \$104. How much money will a customer save?

3. A machine finishes $\frac{1}{2}$ of a part in $\frac{2}{3}$ hour. What is the unit rate in parts per hour?

4. A recipe uses 2 cups of flour for every 3 cups of sugar. Ava uses 4 cups of flour. How much sugar is needed?

5. A map has a scale of 1 inch = 40 miles. Two cities are 8 inches apart on the map. What is the actual distance between the two cities?

6. A recipe uses $\frac{1}{2}$ cup of flour for $\frac{1}{2}$ of a batch. What is the unit rate in cups per batch?

7. A recipe uses 4 cups of flour for every 3 cups of sugar. Sam uses 16 cups of flour. How much sugar is needed?

8. A grocery store sells 6 apples for \$2.40. At this rate, how much would 10 apples cost?

9. $\frac{1}{3}$ of a can of paint covers $\frac{1}{3}$ of a wall. What is the unit rate in walls per can?

10. A recipe uses 4 cups of flour for every 7 cups of sugar. Elena uses 24 cups of flour. How much sugar is needed?

Answer Key

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|--------------------------------|--------------------|-------------------|
| 1. \$80.00 | 5. 320 miles | 9. 1 wall per can |
| 2. \$26.00 | 6. 1 cup per batch | 10. 42 cups |
| 3. $\frac{3}{4}$ part per hour | 7. 12 cups | |
| 4. 6 cups | 8. \$4.00 | |