

Grade 7 Ratios & Proportions Word Problems

Ratios & Proportions • Grade 7 • Word Problems • Set B

Name: _____

Date: _____

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

1. A recipe uses 6 cups of flour for every 2 cups of sugar. Uma uses 42 cups of flour. How much sugar is needed?

2. There are 280 students in 6th grade. If 40% of them participate in after-school clubs, how many students participate in after-school clubs?

3. A printer prints $\frac{1}{10}$ page in $\frac{1}{3}$ minute. What is the unit rate in pages per minute?

4. 6 notebooks cost \$48.00. What is the cost of 9 notebooks?

5. A car travels 180 miles in 6 hours at a constant speed. How many miles does the car travel per hour?

6. A machine finishes $\frac{3}{4}$ of a part in $\frac{1}{4}$ hour. What is the unit rate in parts per hour?

7. A recipe uses 2 cups of flour for every 8 cups of sugar. Ivan uses 12 cups of flour. How much sugar is needed?

8. A recipe that serves 6 people uses 3 pounds of pasta. How many pounds of pasta are needed to serve 24 people?

9. $\frac{1}{5}$ of a can of paint covers $\frac{1}{4}$ of a wall. What is the unit rate in walls per can?

10. Omar drives 720 miles in 8 hours. At that rate, how far does Omar drive in 10 hours?

Answer Key

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|-----------------------------------|-----------------------|-------------------------------|
| 1. 14 cups | 5. 30 miles per hour | 9. $\frac{4}{5}$ wall per can |
| 2. 112 students | 6. 3 parts per hour | 10. 900 miles |
| 3. $\frac{3}{10}$ page per minute | 7. 48 cups | |
| 4. \$72.00 | 8. 12 pounds of pasta | |