

Grade 7 Ratios & Proportions Word Problems

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

Name: _____

Date: _____

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

1. 4 notebooks cost \$36.00. What is the cost of 7 notebooks?

2. There are 320 students in 6th grade. If 25% of them participate in the school band, how many students participate in the school band?

3. A recipe uses $\frac{3}{4}$ cup of flour for $\frac{2}{3}$ of a batch. What is the unit rate in cups per batch?

4. A paint mix is 7 parts blue to 2 parts white. How many parts blue are needed for 6 parts white?

5. A runner completes 2 laps in 15 minutes. At this rate, how many laps will the runner complete in 30 minutes?

6. A machine finishes $\frac{1}{2}$ of a part in $\frac{3}{4}$ hour. What is the unit rate in parts per hour?

7. A recipe uses 8 cups of flour for every 5 cups of sugar. Sam uses 64 cups of flour. How much sugar is needed?

8. A factory produces 660 toy cars in 6 hours. How many toy cars does it produce per hour?

9. $\frac{1}{3}$ of a can of paint covers $\frac{2}{3}$ of a wall. What is the unit rate in walls per can?

10. A paint mix is 3 parts blue to 6 parts white. How many parts blue are needed for 24 parts white?

Answer Key

Grade 7 Ratios & Proportions Word Problems — Set A

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|----------------------------------|--------------------------------|-------------------------------|
| 1. \$63.00 | 5. 4 laps | 9. $\frac{1}{2}$ wall per can |
| 2. 80 students | 6. $\frac{2}{3}$ part per hour | 10. 12 parts |
| 3. $1\frac{1}{8}$ cups per batch | 7. 40 cups | |
| 4. 21 parts | 8. 110 toy cars per hour | |