

Grade 8 Ratios & Proportions Word Problems

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

Name: _____

Date: _____

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

1. Grace drives 120 miles in 4 hours. At that rate, how far does Grace drive in 6 hours?

2. A grocery store sells 4 pears for \$4.40. At this rate, how much would 10 pears cost?

3. A machine finishes $\frac{4}{5}$ of a part in $\frac{1}{2}$ hour. What is the unit rate in parts per hour?

4. A paint mix is 6 parts blue to 3 parts white. How many parts blue are needed for 15 parts white?

5. A factory produces 1,100 toy cars in 10 hours. How many toy cars does it produce per hour?

6. A pipe leaks $1\frac{1}{2}$ liters in $\frac{1}{3}$ hour. What is the unit rate in liters per hour?

7. 5 notebooks cost \$30.00. What is the cost of 8 notebooks?

8. A swimming pool is being filled at a rate of 400 gallons per hour. How many gallons will be in the pool after 3 hours?

9. A recipe uses $\frac{1}{2}$ cup of flour for $\frac{1}{3}$ of a batch. What is the unit rate in cups per batch?

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

Answer Key

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|----------------------------------|-----------------------------------|----------------------------------|
| 1. 180 miles | 5. 110 toy cars per hour | 9. $1\frac{1}{2}$ cups per batch |
| 2. \$11.00 | 6. $4\frac{1}{2}$ liters per hour | 10. 24 parts |
| 3. $1\frac{3}{5}$ parts per hour | 7. \$48.00 | |
| 4. 30 parts | 8. 1,200 gallons | |