

Unit 3: Unit Rates and Percentages

PRACTICE

Name: _____ Date: _____

Solve each problem. Show your work and write your final answer on the line. Give exact answers.

1. A car travels 240 miles on 8 gallons of gas. What is the unit rate in miles per gallon?

Answer: _____

2. A store sells 5 notebooks for \$6.25. What is the price per notebook, in dollars?

Answer: _____

3. A recipe uses 3 cups of flour for every 2 cups of sugar. How many cups of flour are needed for 10 cups of sugar?

Answer: _____

4. Maria types 180 words in 4 minutes. At this constant rate, how many words does she type in 7 minutes?

Answer: _____

5. What is 25% of 80?

Answer: _____

6. A shirt costs \$40. It is on sale for 15% off. How many dollars is the discount?

Answer: _____

7. 12 is what percent of 48?

Answer: _____

8. A juice mix has 3 liters of concentrate for every 12 liters of water. How many liters of water are needed for 5 liters of concentrate?

Answer: _____

9. A worker earns \$54 for 6 hours of work. At this rate, how much does the worker earn for 9 hours, in dollars?

Answer: _____

10. 30% of a number is 45. What is the number?

Answer: _____

11. A printer prints 90 pages in 3 minutes. How many pages does it print in 8 minutes at the same rate?

Answer: _____

12. A backpack originally costs \$60 and is marked up to \$75. By what percent did the price increase?

Answer: _____