

# Unit Rates

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Score: \_\_\_\_\_ / 18

## Quick Review and Helpful Hints

A *unit rate* tells how much per *one* unit – per item, per hour, per mile. Find it by *dividing* the total by the number of units. Examples: dollars per pound, miles per hour, words per minute.

▶ **Example:** 12 apples cost \$6. Find the price per apple.

**Work:** Divide the cost by the number of apples:  $6 \div 12 = 0.50$ .

★ **Answer:** \$0.50 per apple

$$\text{rate} = \frac{\text{total}}{\text{units}}$$

Amount per ONE unit.

### Practice Problems

Find each unit rate.

- |                       |       |                       |       |
|-----------------------|-------|-----------------------|-------|
| 1. \$6 for 12 apples  | _____ | 8. 60 pages in 2 hr   | _____ |
| 2. 150 mi in 3 hr     | _____ | 9. \$8 for 16 oz      | _____ |
| 3. \$10 for 5 lb      | _____ | 10. 200 mi on 10 gal  | _____ |
| 4. 120 words in 2 min | _____ | 11. \$15 for 3 shirts | _____ |
| 5. \$20 for 4 tickets | _____ | 12. 90 mi in 1.5 hr   | _____ |
| 6. 100 mi in 4 hr     | _____ | 13. \$4 for 8 cookies | _____ |
| 7. \$9 for 3 lb       | _____ | 14. 300 mi on 12 gal  | _____ |

### Word Problems

15. A car goes 240 mi in 4 hr. Find its speed. \_\_\_\_\_
16. 6 oranges cost \$3. Find the cost per orange. \_\_\_\_\_
17. You earn \$45 in 5 hr. Find your hourly rate. \_\_\_\_\_
18. A car travels 250 mi on 10 gal. Find the miles per gallon. \_\_\_\_\_



## Answer Keys

- |                |              |                 |
|----------------|--------------|-----------------|
| 1. \$0.50 each | 7. \$3/lb    | 13. \$0.50 each |
| 2. 50 mph      | 8. 30/hr     | 14. 25 mpg      |
| 3. \$2/lb      | 9. \$0.50/oz | 15. 60 mph      |
| 4. 60 wpm      | 10. 20 mpg   | 16. \$0.50      |
| 5. \$5 each    | 11. \$5 each | 17. \$9/hr      |
| 6. 25 mph      | 12. 60 mph   | 18. 25 mpg      |

### Step-by-Step Explanations

1. Start by naming the process: A unit rate means the amount for one unit, so divide the total amount by the number of units. The setup/work is  $6 \div 12 = \$0.50$  each. So the final answer is \$0.50 each.
2. A good way to think about this is: A unit rate means the amount for one unit, so divide the total amount by the number of units. The setup/work is  $150 \div 3 = 50$  mph. So the final answer is 50 mph.
3. Step by step: A unit rate means the amount for one unit, so divide the total amount by the number of units. The setup/work is  $10 \div 5 = \$2/\text{lb}$ . So the final answer is \$2/lb.
4. Take it one move at a time: A unit rate means the amount for one unit, so divide the total amount by the number of units. The setup/work is  $120 \div 2 = 60$  wpm. So the final answer is 60 wpm.
5. Start by naming the process: A unit rate means the amount for one unit, so divide the total amount by the number of units. The setup/work is  $20 \div 4 = \$5$  each. So the final answer is \$5 each.
6. A good way to think about this is: A unit rate means the amount for one unit, so divide the total amount by the number of units. The setup/work is  $100 \div 4 = 25$  mph. So the final answer is 25 mph.
7. Step by step: A unit rate means the amount for one unit, so divide the total amount by the number of units. The setup/work is  $9 \div 3 = \$3/\text{lb}$ . So the final answer is \$3/lb.
8. Take it one move at a time: A unit rate means the amount for one unit, so divide the total amount by the number of units. The setup/work is  $60 \div 2 = 30$  pages/hr. So the final answer is 30/hr.
9. Start by naming the process: A unit rate means the amount for one unit, so divide the total amount by the number of units. The setup/work is  $8 \div 16 = \$0.50/\text{oz}$ . So the final answer is \$0.50/oz.
10. A good way to think about this is: A unit rate means the amount for one unit, so divide the total amount by the number of units. The setup/work is  $200 \div 10 = 20$  mpg. So the final answer is 20 mpg.
11. Step by step: A unit rate means the amount for one unit, so divide the total amount by the number of units. The setup/work is  $15 \div 3 = \$5$  each. So the final answer is \$5 each.
12. Take it one move at a time: A unit rate means the amount for one unit, so divide the total amount by the number of units. The setup/work is  $90 \div 1.5 = 60$  mph. So the final answer is 60 mph.
13. Start by naming the process: A unit rate means the amount for one unit, so divide the total amount by the number of units. The setup/work is  $4 \div 8 = \$0.50$  each. So the final answer is \$0.50 each.
14. A good way to think about this is: A unit rate means the amount for one unit, so divide the total amount by the number of units. The setup/work is  $300 \div 12 = 25$  mpg. So the final answer is 25 mpg.
15. Step by step: A unit rate means the amount for one unit, so divide the total amount by the number of units. The setup/work is  $240 \div 4 = 60$  mph. So the final answer is 60 mph.
16. Take it one move at a time: A unit rate means the amount for one unit, so divide the total amount by the number of units. The setup/work is  $3 \div 6 = \$0.50$ . So the final answer is \$0.50.
17. Start by naming the process: A unit rate means the amount for one unit, so divide the total amount by the number of units. The setup/work is  $45 \div 5 = \$9/\text{hr}$ . So the final answer is \$9/hr.
18. A good way to think about this is: A unit rate means the amount for one unit, so divide the total amount by the number of units. The setup/work is  $250 \div 10 = 25$  mpg. So the final answer is 25 mpg.



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