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

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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 $10 \div 5 = \$2$/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 $9 \div 3 = \$3$/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 $8 \div 16 = \$0.50$/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 $45 \div 5 = \$9$/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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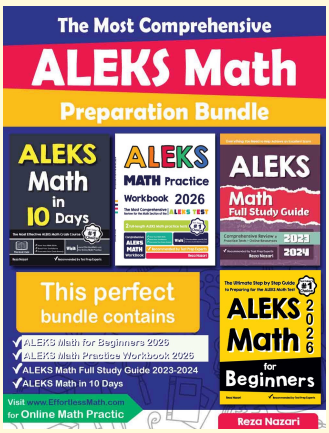

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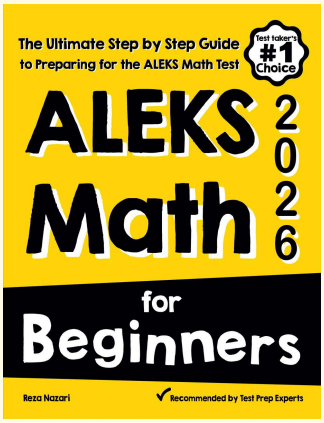

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