

## REVIEW: Rates

Name \_\_\_\_\_

### Key Concept and Vocabulary

You pay \$12 for 4 hot dogs.



$$\text{Rate} = \frac{\$12}{4 \text{ hot dogs}}$$

$$\text{Unit Rate} = \frac{\$3}{1 \text{ hot dog}}$$



### Visual Model



### Skill Examples

- You drive 100 miles in 2 hours.  
Your unit rate is 50 miles per hour.
- You earn \$40 in 5 hours.  
Your unit rate is \$8 per hour.
- You save \$240 in 6 months.  
Your unit rate is \$40 per month.

### Application Example

- Janice was 44 inches tall when she was 8 years old. She was 52 inches tall when she was 12 years old. What was her unit rate?

She grew 8 inches in 4 years:  $\frac{8}{4} = \frac{2}{1}$ .

Her unit rate is 2 inches per year.



## PRACTICE MAKES PURR-FECT™

Check your answers at [BigIdeasMath.com](http://BigIdeasMath.com).

Write the unit rate in words and as a fraction for each situation.

- |  |       |          |
|--|-------|----------|
| 5. You fly 2000 miles in 4 hours.            | _____ | _____    |
|  | Words | Fraction |
| 6. You pay 15 dollars for 3 pizzas.          | _____ | _____    |
|  | Words | Fraction |
| 7. You pay \$4 sales tax on a \$50 purchase. | _____ | _____    |
|  | Words | Fraction |
| 8. You earn \$25 for mowing 5 lawns.         | _____ | _____    |
|  | Words | Fraction |

Circle the name of the person with the greater unit rate.

- |  |   |
|--|---|
| 9. Maria saves \$50 in 4 months.<br>Ralph saves \$60 in 5 months.                  | 10. John rides his bicycle 36 miles in 3 hours.<br>Randy rides his bicycle 30 miles in 2.5 hours. |
| 11. Kim earns \$400 for working 40 hours.<br>Sam earns \$540 for working 45 hours. | 12. Arlene scores 450 points on 5 tests.<br>Jolene scores 180 points on 2 tests.                  |

Convert the unit rate.

13.  $\frac{60 \text{ miles}}{1 \text{ hour}} = \frac{\boxed{\phantom{000}} \text{ feet}}{1 \text{ second}}$

14.  $\frac{2 \text{ gallons}}{1 \text{ hour}} = \frac{\boxed{\phantom{000}} \text{ cups}}{1 \text{ minute}}$