

# REVIEW: Rates

Name \_\_\_\_\_

## Key Concept and Vocabulary

A **rate** is a ratio of two quantities using different units.

You pay \$12 for 4 hot dogs.

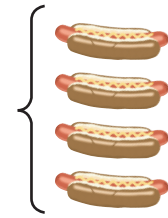


Rate = \$12 : 4 hot dogs

Unit Rate = \$3 : 1 hot dog

## Visual Model

Rate:  
\$12 : 4 hot dogs



Unit rate:  
\$3 : 1 hot dog

## 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 grew 8 inches in 4 years. What was her unit rate?

Inches	8	2
Years	4	1

$\div 4$   
 $\div 4$

Her unit rate is 2 inches per year.



## PRACTICE MAKES PURR-FECT®

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

Write a rate for the situation. Then find the unit rate.

- You fly 2000 miles in 4 hours.

2000 miles : 4 hours

Rate

500 miles : 1 hour

Unit Rate

- You pay \$15 for 3 pizzas.

\$15 : 3 pizzas

Rate

\$5 : 1 pizza

Unit Rate

- You pay \$4 sales tax on 5 identical items.

\$4 : 5 items

Rate

\$0.80 : 1 item

Unit Rate

- You earn \$50 for mowing 5 lawns.

\$50 : 5 lawns

Rate

\$10 : 1 lawn

Unit Rate

Decide whether the rates are equivalent.

- Maria saves \$50 in 4 months.  
Ralph saves \$60 in 5 months

not equivalent

- John rides his bicycle 36 miles in 3 hours.  
Randy rides his bicycle 30 miles in 2.5 hours.

equivalent

- Kim earns \$400 for working 40 hours.  
Sam earns \$540 for working 45 hours.

not equivalent

- Arlene scores 450 points on 5 tests.  
Jolene scores 180 points on 2 tests.

equivalent