

REVIEW: Rates

Name _____

Key Concept and Vocabulary

You pay \$12 for 4 hot dogs.

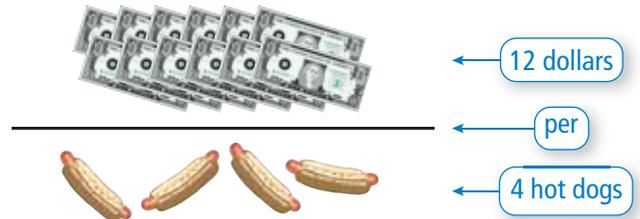


$$\text{Rate} = \frac{\$12}{4 \text{ hot dogs}}$$

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



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.



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Check your answers at BigIdeasMath.com.

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

5. You fly 2000 miles in 4 hours.

500 miles per hour

Words

$\frac{500 \text{ mi}}{1 \text{ h}}$

Fraction

6. You pay 15 dollars for 3 pizzas.

5 dollars per pizza

Words

$\frac{\$5}{1 \text{ pizza}}$

Fraction

7. You pay \$4 sales tax on a \$50 purchase.

0.08 dollar per 1 dollar purchase

Words

$\frac{\$0.08}{\$1 \text{ purchase}}$

Fraction

8. You earn \$25 for mowing 5 lawns.

5 dollars per lawn

Words

$\frac{\$5}{1 \text{ lawn}}$

Fraction

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

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

10. John rides his bicycle 36 miles in 3 hours.
Randy rides his bicycle 30 miles in 2.5 hours.
Unit rates are the same.

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

12. Arlene scores 450 points on 5 tests.
Jolene scores 180 points on 2 tests.
Unit rates are the same.

Convert the unit rate.

13. $\frac{60 \text{ miles}}{1 \text{ hour}} = \frac{88 \text{ feet}}{1 \text{ second}}$

14. $\frac{2 \text{ gallons}}{1 \text{ hour}} = \frac{\frac{8}{15} \text{ cups}}{1 \text{ minute}}$