

Lesson 3-2

Reinforce Understanding

Understand Rates and Unit Rates

I can describe a rate using its two different units and use a model to find a travel time, and I can find a unit rate to compare prices and decide the better buy.

Worked model

A reader finishes 96 pages in 3 hours at a steady speed. Find the pages per hour.

1. Write the rate as a fraction. 96 pages / 3 hours
2. Divide to make the bottom number 1. $96 \div 3 = 32$
3. Say it with the word PER. 32 pages per 1 hour
4. Use it to predict. in 5 hours: $5 \times 32 = 160$ pages

Answer: The unit rate is 32 pages per hour.

Practice

Complete each exercise. Show the reasoning that supports your answer.

1. Find the unit rate for each arcade deal.

Complete the table. Show how you found each value.

Deal	Total Cost	Number of Games	Unit Rate
Deal A	\$6.00	12 games	\$0.50 per game
Deal B	\$7.50	10 games	
Deal C	\$4.80	8 games	

Show your work

2. A booth charges \$4.50 for 9 games. What is the unit rate?

Circle the letter of the best answer. Show how you know.

- A. \$0.45 per game
- B. \$0.50 per game
- C. \$2.00 per game
- D. \$4.50 per game

3. A car travels 180 miles using 6 gallons of gas. What is the unit rate in miles per gallon?

Circle the letter of the best answer. Show how you know.

- A. 6 miles per gallon
- B. 30 miles per gallon
- C. 36 miles per gallon
- D. 180 miles per gallon