LESSON MAKER PRO

Rate Ready

Find rates and unit rates in everyday situations.

GRADE 6 · MA.6.AR.3.2

MA.6.AR.3.2 "Given a real-world context, determine a rate for a ratio of quantities with different units. Calculate and interpret the corresponding unit rate."

NAME _____ DATE _____

FIND THE UNIT RATE

A rate compares two quantities with different units, such as stickers and packs. A unit rate tells the amount for 1 unit, so divide both parts of the rate by the same number until one quantity is 1.

WORKED EXAMPLE

A store puts 21 stickers into 7 packs. What is the rate, and what is the unit rate in stickers per pack?

1. Write the rate: 21 stickers/7 packs.
2. Divide both quantities by 7.
3. 21/7 = 3 and 7/7 = 1.

Answer: 21 stickers per 7 packs; 3 stickers per pack

PRACTICE 6 problems

1 A cyclist rides 32 kilometers in 4 hours. Write the rate and the unit rate in kilometers per hour.

ANSWER _____

2 Four notebooks cost $16. Write the rate and the unit rate in dollars per notebook.

ANSWER _____

3 A player scores 45 points in 9 games. Write the rate and the unit rate in points per game.

ANSWER _____

4 A faucet fills 10 liters in 2 minutes. Write the rate and the unit rate in liters per minute.

ANSWER _____

5 A recipe uses 15 ounces of juice for 8 servings. Write the rate and the unit rate in ounces per serving.

ANSWER _____

6 A small boat travels 27 miles using 12 gallons of fuel. Write the rate and the unit rate in miles per gallon.

ANSWER _____

APPLY IT Show your work

1 At a gaming tournament, a player earns 48 points in 6 matches. What is the unit rate in points per match?

WORK SPACE

ANSWER _____

2 Jalen saves $54 over 6 weeks to buy new headphones. What is Jalen's unit rate in dollars per week?

WORK SPACE

ANSWER _____

CHALLENGE One step up

At a school market, Team A makes 44 bracelets in 4 hours. Team B makes 45 bracelets in 5 hours. Which team makes bracelets faster? How many more bracelets per hour does that team make?

WORK SPACE AND ANSWER

ANSWER KEY # Rate Ready

GRADE 6 · MA.6.AR.3.2

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	A cyclist rides 32 kilometers in 4 hours. Write the rate and the unit rate in kilometers per hour.	**32 kilometers per 4 hours; 8 kilometers per hour**
2	Four notebooks cost $16. Write the rate and the unit rate in dollars per notebook.	**$16 per 4 notebooks; $4 per notebook**
3	A player scores 45 points in 9 games. Write the rate and the unit rate in points per game.	**45 points per 9 games; 5 points per game**
4	A faucet fills 10 liters in 2 minutes. Write the rate and the unit rate in liters per minute.	**10 liters per 2 minutes; 5 liters per minute**
5	A recipe uses 15 ounces of juice for 8 servings. Write the rate and the unit rate in ounces per serving.	**15 ounces per 8 servings; 15/8 ounce per serving**
6	A small boat travels 27 miles using 12 gallons of fuel. Write the rate and the unit rate in miles per gallon.	**27 miles per 12 gallons; 9/4 miles per gallon**

PART 2 · APPLY IT

1. **8 points per match** Divide 48 points by 6 matches. The player earns 8 points for each match.
2. **$9 per week** Divide $54 by 6 weeks. Jalen saves $9 each week.

CHALLENGE

Team A makes bracelets faster. Team A makes 11 bracelets per hour, and Team B makes 9 bracelets per hour, so Team A makes 2 more bracelets per hour.

Accept equivalent fractional forms for unit rates, as long as the units are correct. Students should state the unit rate with a per 1 unit interpretation.