

Rate Ready

Find the amount for one unit.

GRADE 7 • TEKS 7.4.B

7.4.B "calculate unit rates from rates in mathematical and real-world problems;"

NAME _____

DATE _____

UNIT RATE RULE

A unit rate tells how much of one quantity goes with 1 of another quantity. To find a unit rate, divide and then write the correct units.

WORKED EXAMPLE

A runner travels 84 miles in 3 hours. Find the unit rate in miles per hour.

1. Write the rate: 84 miles / 3 hours.
2. Divide: $84 / 3 = 28$.
3. Attach the units: 28 miles per hour.

Answer: 28 miles per hour

PRACTICE 6 problems

- 1** A printer makes 45 flyers in 5 minutes. Find the unit rate in flyers per minute.

ANSWER _____

- 2** Eight notebooks cost \$16. Find the unit rate in dollars per notebook.

ANSWER _____

- 3** A club collects 56 cans in 7 days. Find the unit rate in cans per day.

ANSWER _____

- 4** $5/8$ pound of trail mix is packed equally into 5 bags. Find the unit rate in pounds per bag.

ANSWER _____

- 5** A bus travels 90 miles using 6 gallons of fuel. Find the unit rate in miles per gallon.

ANSWER _____

- 6** A water tank fills 72 bottles with 12 liters of water. Find the unit rate in bottles per liter.

ANSWER _____

APPLY IT Show your work

- 1** At an esports club, 42 players sign up over 6 weeks. If players sign up at the same rate, how many players sign up each week?

WORK SPACE

ANSWER _____

- 2** A skateboard shop charges \$54 for 9 wheels. What is the cost per wheel?

WORK SPACE

ANSWER _____

CHALLENGE One step up

Plan A gives 16 game tokens for \$4. Plan B gives 25 game tokens for \$5. Which plan gives more game tokens per dollar? Show both unit rates.

WORK SPACE AND ANSWER

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	A printer makes 45 flyers in 5 minutes. Find the unit rate in flyers per minute.	9 flyers per minute
2	Eight notebooks cost \$16. Find the unit rate in dollars per notebook.	\$2 per notebook
3	A club collects 56 cans in 7 days. Find the unit rate in cans per day.	8 cans per day
4	$\frac{5}{8}$ pound of trail mix is packed equally into 5 bags. Find the unit rate in pounds per bag.	$\frac{1}{8}$ pound per bag
5	A bus travels 90 miles using 6 gallons of fuel. Find the unit rate in miles per gallon.	15 miles per gallon
6	A water tank fills 72 bottles with 12 liters of water. Find the unit rate in bottles per liter.	6 bottles per liter

PART 2 • APPLY IT

1. **7 players per week** Divide 42 players by 6 weeks. The unit rate is 7 players per week.
2. **\$6 per wheel** Divide \$54 by 9 wheels. Each wheel costs \$6.

CHALLENGE

Plan A: 4 game tokens per dollar. Plan B: 5 game tokens per dollar. Plan B gives more game tokens per dollar.

Accept equivalent unit-rate wording when the value and units are correct. Require students to label the unit rate with the requested units.