

Rate Ready

Find the amount for one unit.

GRADE 6 • 6.NR.4.5

6.NR.4.5 "Solve unit rate problems including those involving unit pricing and constant speed."

NAME _____

DATE _____

FIND THE UNIT RATE

A unit rate tells how much there is for 1 unit. Divide the total amount by the number of units, then name the rate with its units.

WORKED EXAMPLE

A scooter travels 84 miles in 2 hours. What is its unit rate?

1. Divide miles by hours: $84 / 2$.
2. $84 / 2 = 42$.
3. The unit rate is 42 miles per hour.

Answer: 42 miles per hour

PRACTICE 6 problems

- 1** 72 stickers are shared equally among 8 packs. How many stickers are in each pack?

ANSWER _____

- 2** 5 notebooks cost \$35. What is the unit price?

ANSWER _____

- 3** A car travels 96 miles in 4 hours. What is its unit rate?

ANSWER _____

- 4** 20 cups of lemonade fill 5 pitchers equally. How many cups are in each pitcher?

ANSWER _____

- 5** A 12-ounce box of cereal costs \$6. What is the cost per ounce?

ANSWER _____

- 6** A reader finishes 45 pages in 9 minutes. What is the unit rate?

ANSWER _____

APPLY IT Show your work

- 1** A music app costs \$28 for 4 months. At the same rate, how much would 7 months cost?

WORK SPACE

ANSWER _____

- 2** A cyclist rides 56 miles in 7 hours. At the same speed, how far will the cyclist ride in 9 hours?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

The art club needs 18 paintbrushes. Store A sells packs of 5 brushes for \$10. Store B sells packs of 7 brushes for \$14. Each store sells only full packs. Which store should the club choose, and what will it cost?

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	72 stickers are shared equally among 8 packs. How many stickers are in each pack?	9 stickers per pack
2	5 notebooks cost \$35. What is the unit price?	\$7 per notebook
3	A car travels 96 miles in 4 hours. What is its unit rate?	24 miles per hour
4	20 cups of lemonade fill 5 pitchers equally. How many cups are in each pitcher?	4 cups per pitcher
5	A 12-ounce box of cereal costs \$6. What is the cost per ounce?	\$0.50 per ounce
6	A reader finishes 45 pages in 9 minutes. What is the unit rate?	5 pages per minute

PART 2 • APPLY IT

1. **\$49** Divide \$28 by 4 to find a cost of \$7 per month. Multiply \$7 by 7 months.
2. **72 miles** Divide 56 by 7 to find a speed of 8 miles per hour. Multiply 8 by 9 hours.

CHALLENGE

Store A, \$40. The club needs 4 packs from Store A for 20 brushes, but 3 packs from Store B would cost \$42.

Accept equivalent unit-price forms, such as \$0.50 per ounce or 1/2 dollar per ounce. For the challenge, students must account for buying only whole packs.