LESSON MAKER PRO

Rate Ready

Find the amount for one unit.

GRADE 6 · 6.NR.4.4

6.NR.4.4 "Describe the concept of rates and unit rate in the context of a ratio relationship."

NAME _____ DATE _____

RATES AND UNIT RATES

A rate compares two quantities with different units, such as pages and minutes. A unit rate tells how much of one quantity goes with 1 of the other quantity. Divide to find the amount for 1.

WORKED EXAMPLE

65 beads are shared equally among 13 bags. Find the unit rate.

1. Write the rate: 65 beads / 13 bags.
2. Divide: 65 / 13 = 5.
3. State the amount for 1 bag.

Answer: 5 beads per bag

PRACTICE 6 problems

1 Use the table to find the unit rate in miles per hour.

BIKE RIDE

Hours	Miles
4	28

ANSWER _____

2 18 trading cards are packed equally into 3 packs. How many cards are in 1 pack?

ANSWER _____

3 A mural uses 3/4 liter of paint for 6 equal sections. How much paint is used for 1 section?

ANSWER _____

4 A player earns 32 points in 8 games. What is the unit rate in points per game?

ANSWER _____

5 A store sells 14 pencils for $2. How many pencils can you buy for $1?

ANSWER _____

6 Nora reads 27 pages in 3 minutes. Kai reads 32 pages in 4 minutes. Who reads faster? Give both unit rates.

ANSWER _____

APPLY IT Show your work

1 A streamer posts 7 video clips that have the same length. Together, the clips last 63 minutes. What is the unit rate in minutes per clip?

WORK SPACE

ANSWER _____

2 Plan A costs $21 for 3 GB of data. Plan B costs $32 for 4 GB of data. Which plan costs less per GB? Show each unit rate.

WORK SPACE

ANSWER _____

CHALLENGE One step up

A craft creator uses 11/12 yard of ribbon to make 4 equal wristbands. How much ribbon is used for 1 wristband? Explain how you found the unit rate.

WORK SPACE AND ANSWER

Rate Ready

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Use the table to find the unit rate in miles per hour.	**7 miles per hour**
2	18 trading cards are packed equally into 3 packs. How many cards are in 1 pack?	**6 cards per pack**
3	A mural uses 3/4 liter of paint for 6 equal sections. How much paint is used for 1 section?	**1/8 liter per section**
4	A player earns 32 points in 8 games. What is the unit rate in points per game?	**4 points per game**
5	A store sells 14 pencils for $2. How many pencils can you buy for $1?	**7 pencils per dollar**
6	Nora reads 27 pages in 3 minutes. Kai reads 32 pages in 4 minutes. Who reads faster? Give both unit rates.	**Nora reads faster. Nora: 9 pages per minute; Kai: 8 pages per minute.**

PART 2 · APPLY IT

1. **9 minutes per clip** Divide 63 minutes by 7 clips. 63 / 7 = 9.
2. **Plan A costs less. Plan A: $7 per GB; Plan B: $8 per GB.** Divide each cost by its number of GB. Plan A is 21 / 3 = 7, and Plan B is 32 / 4 = 8.

CHALLENGE

11/48 yard per wristband. Divide 11/12 by 4: 11/12 / 4 = 11/12 x 1/4 = 11/48.

Accept equivalent unit-rate wording, such as "7 miles for each hour." For the challenge, accept an equivalent explanation that divides the total ribbon by the number of wristbands.