LESSON MAKER PRO

Rate Ready

Use unit rates and proportions to solve real situations.

GRADE 6 · 6.NR.4

6.NR.4 "Solve a variety of contextual problems involving ratios, unit rates, equivalent ratios, percentages, and conversions within measurement systems using proportional reasoning."

NAME _____ DATE _____

FIND THE UNIT RATE

A unit rate tells the amount for 1 item or 1 unit. To solve a proportional situation, divide to find the amount for 1, then multiply for the amount you need.

WORKED EXAMPLE

Seven concert tickets cost $21. How much do 15 tickets cost at the same rate?

1. Find the cost of 1 ticket: $21 / 7 = $3.
2. Multiply by the number of tickets: 15 x $3 = $45.

Answer: $45

PRACTICE 6 problems

1 Complete the equivalent ratio: 2:5 = 8:___.

ANSWER _____

2 A student reads 36 pages in 4 days at a steady rate. How many pages does the student read per day?

ANSWER _____

3 What is 30% of 90?

ANSWER _____

4 Convert 2 meters to centimeters.

ANSWER _____

5 Five pounds of apples cost $10. How much do 8 pounds cost at the same rate?

ANSWER _____

6 Eighteen out of 60 students chose art club. What percent chose art club?

ANSWER _____

APPLY IT Show your work

1 An esports club buys 12 controller grips for $18. At the same rate, how much will 20 controller grips cost?

WORK SPACE

ANSWER _____

2 A runner fills 4 water bottles. Each bottle holds 1.5 liters. How many milliliters of water do the bottles hold altogether?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A pair of headphones costs $56 and is on sale for 25% off. You also buy an $8 carrying case. What is the total cost after the discount and the case?

WORK SPACE AND ANSWER

ANSWER KEY # Rate Ready

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Complete the equivalent ratio: 2:5 = 8:___.	**20**
2	A student reads 36 pages in 4 days at a steady rate. How many pages does the student read per day?	**9 pages per day**
3	What is 30% of 90?	**27**
4	Convert 2 meters to centimeters.	**200 centimeters**
5	Five pounds of apples cost $10. How much do 8 pounds cost at the same rate?	**$16**
6	Eighteen out of 60 students chose art club. What percent chose art club?	**30%**

PART 2 · APPLY IT

1. **$30** Divide $18 by 12 to find that each grip costs $1.50. Multiply $1.50 by 20 grips.
2. **6,000 milliliters** Multiply 4 by 1.5 to get 6 liters. Convert 6 liters to 6,000 milliliters.

CHALLENGE

$50

Accept equivalent money forms, such as $30.00, and correct measurement abbreviations. For the challenge, students should find a $14 discount, then add the $8 case to the $42 sale price.