



CCSS: 6.RP.A.2: Understand the concept of a unit rate $\frac{a}{b}$ associated with a ratio $a : b$ with $b \neq 0$, and use rate language in the context of a ratio relationship 6.RP.A.3: Use ratio and rate reasoning to solve real-world and mathematical problems

Launch

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The label shows nutritional benefits for an entire 12-fluid-ounce sports drink. The beverage company wants to produce a 16-fluid-ounce bottle of the same drink.

How many calories and grams (g) of carbohydrates should the company put on the label?



Reflect How many calories does 1 fluid ounce of sports drink have? How would knowing this be useful?

Got It?

PART 1 Got It



A basketball player scores 60 points in 4 games. What is the basketball player's unit rate for points per game?

PART 2 Got It



A blade of grass grew 5 inches in 50 days. How much did the grass grow per day?

PART 3 Got It



Your dishwasher uses 11 gallons of water to wash 2 loads of dishes. How many gallons of water will your dishwasher use to wash 7 loads of dishes?

Close and Check



Focus Question

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What makes a ratio a rate? When could rates be useful?



Do you know **HOW**?

1. Write each as a rate and as a unit rate.

32 flowers to 8 vases

rate

unit rate

22 gallons to 5 buckets

rate

unit rate

4 boats to 20 days

rate

unit rate

2. The boat company makes 4 boats in 20 days. At that rate, how many boats could they make in 25 days?

boats



Do you **UNDERSTAND**?

3. **Vocabulary** How is a unit rate different from other rates?

4. **Error Analysis** Your aunt works at a pet store that is about to receive a shipment of birds. She counts how many cages are available to know how many birds to place in each. She tells her boss the unit rate is 1 cage per 4 birds. Explain her mistake.
