TEACHER KEY · LESSON WORKSHEET · GRADE 6 · 6.RP.1-6.RP.5

Ratios, Rates & Percents

Fill in each part when its number appears on the slide.

PART 1 · TARGET

I can use ratios, unit rates, and percents to solve real-world problems.

PART 2 · WARM-UP

1. There are 12 boys and 15 girls in a class. Write the ratio of boys to girls.
   Key: 12:15, or 4:5.
2. Which is the better buy: 3 pencils for $1.50 or 5 pencils for $2.00? Show work.
   Key: 5 for $2.00 ($0.40 each vs. $0.50 each).
3. What is 10% of 80?
   Key: 8.

PART 3 · PREDICTION

A 12-pack of juice costs $6. A 20-pack costs $9. Which is the better deal?

Circle one: [ ] 12-pack [ ] 20-pack [ ] Same price per juice

PART 4 · VOCABULARY

Word	Meaning
Ratio	A comparison of two quantities (3 to 2, 3:2, 3/2).
Rate	A ratio comparing quantities with different units (miles per hour).
Unit rate	A rate per 1 unit ($2 per pound).
Equivalent ratios	Ratios that make the same comparison (2:3 = 4:6).

PART 5 · RATIOS COMPARE

A RATIO compares two quantities. ORDER matters.

Check: What is the ratio of yogurt to strawberries?

Circle one: (A) 2:5 (B) 3:5 (C) 2:3 (D) 3:2

Key: (C) 2:3. Yogurt comes first: 2:3.

PART 6 · EQUIVALENT RATIOS

To make an EQUIVALENT RATIO, multiply or divide BOTH parts by the same number.

Check: Strawberries 12 cups: how many cups of yogurt?

Answer: _____

Key: 8. 12 ÷ 3 = 4 groups; 4 × 2 = 8.

PART 7 · UNIT RATES

A UNIT RATE is the amount for ONE. To find it, divide.

Check: 4 smoothies cost $18. Price per smoothie?

Answer: _____ dollars

Key: 4.50 dollars. $18 ÷ 4 = $4.50.

PART 8 · PERCENTS

Percent means per HUNDRED. 10% of a number is that number divided by 10.

Check: What is 25% of 80?

Answer: _____

Key: 20. 1/4 of 80 = 20.

PART 9 · WORKED EXAMPLE

1. Problem: 12 for $6 or 20 for $9?
2. Step 1: Unit rate for the 12-pack: $6 ÷ 12 = $0.50 per juice.
3. Step 2: Unit rate for the 20-pack: $9 ÷ 20 = $0.45 per juice.
4. Step 3: Compare: $0.45 < $0.50.
5. Answer: the 20-pack is the better deal, by 5 cents a juice.

PART 10 · WE DO

A recipe uses 2 cups of rice for 5 people. How much rice for 20 people?

Answer: 8 cups

PART 11 · YOU DO

A shirt costs $40 and is 15% off. How much is the discount?

Answer: _____ dollars

Key: 6 dollars. 10% = $4, 5% = $2, so 15% = $6.

PART 12 · WORK TIME: THE SMOOTHIE SHOP LOCKDOWN

Write each code piece as you earn it: Lock 1: R Lock 2: A Lock 3: T Lock 4: I Lock 5: O

Final code: RATIO

PART 13 · WRAP-UP

Was your prediction in Part 3 right? One thing I learned today:

Key: 8.