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Unit 3, Lesson 6: Interpreting Rates

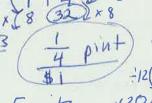
1. A pink paint mixture uses 4 cups of white paint for every 3 cups of red paint.

The table shows different quantities of red and white paint for the same shade of pink. Complete the table.

red paint (cups)
3 123
1 /- 1
4 × 4
15 x 5

A farm lets you pick 3 pints of raspberries for \$12.00.

- a. What is the cost per pint?
 - # # 12 = # 4 mm | 1 pint



- b. How many pints do you get per dollar?

 pints per money
- c. At this rate, how many pints can you afford for \$20.00?
- = 5 pints
- d. At this rate, how much will 8 pints of raspberries cost?
- 8× ±4 = \$32

3. Han and Tyler are following a polenta recipe that uses 5 cups of water for every 2 cups of cornmeal.

- Han says, "I am using 3 cups of water. I will need $1\frac{1}{5}$ cups of cornmeal."
- Tyler says, "I am using 3 cups of cornmeal. I will need $7\frac{1}{2}$ cups of water."

1 Cup Water needs = cup CM) x3

43 (3 water 5 cup cm 2 x3

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Do you agree with either of them? Explain your reasoning.

4. A large art project requires enough paint to cover 1,750 square feet. Each gallon of paint can cover 350 square feet. Each square foot requires $\frac{1}{350}$ of a gallon of paint.

Andre thinks he should use the rate $\frac{1}{350}$ gallons of paint per square foot to find how much paint they need. Do you agree with Andre? Explain or show your reasoning.

 $\frac{350 \text{ ft}^2}{1 \text{ gallon}} = \frac{350 \text{ gallows}}{1 \text{ ft}^2} = \frac{350 \text{ gallows}}{1,750 \text{ ft}^2} \times \frac{1}{350} \text{ gallows} = 5 \text{ gallows}$ OR 11750 Ft2 = 5 gallons

5. Andre types 208 words in 4 minutes. Noah types 342 words in 6 minutes. Who types faster? Explain your reasoning.

208 w . 52 words 342 w = 57 words A

(from Unit 3, Lesson 5)

6. A corn vendor at a farmer's market was selling a bag of 8 ears of corn for \$2.56. Another vendor was selling a bag of 12 for \$4.32. Which bag is the better deal? Explain or show your reasoning.

> \$ 2.56 : 32 \$ 4.32 - 36 12 ars 1 eir or 12 ears is 1/2 8 ears so I need 1/12 \$2.56

(from Unit 3, Lesson 5)

7. A soccer field is 100 meters long. What could be its length in yards? are a little \$33.3 \ \(\text{D} 91 \) \(\text{C} 100 \) \(\text{D} \) \(\text{O} 9 \) \(\text{Shorter} \) \(\text{Short