

Lesson 6 Practice Problems

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.

white paint (cups)	red paint (cups)
4	3
	1
1	
	4
5	

2. A farm lets you pick 3 pints of raspberries for \$12.00.
- What is the cost per pint?
 - How many pints do you get per dollar?
 - At this rate, how many pints can you afford for \$20.00?
 - At this rate, how much will 8 pints of raspberries cost?
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."

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.

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

(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.

(From Unit 3, Lesson 5.)

7. A soccer field is 100 meters long. What could be its length in yards?

- A. 33.3
- B. 91
- C. 100
- D. 109

(From Unit 3, Lesson 3.)