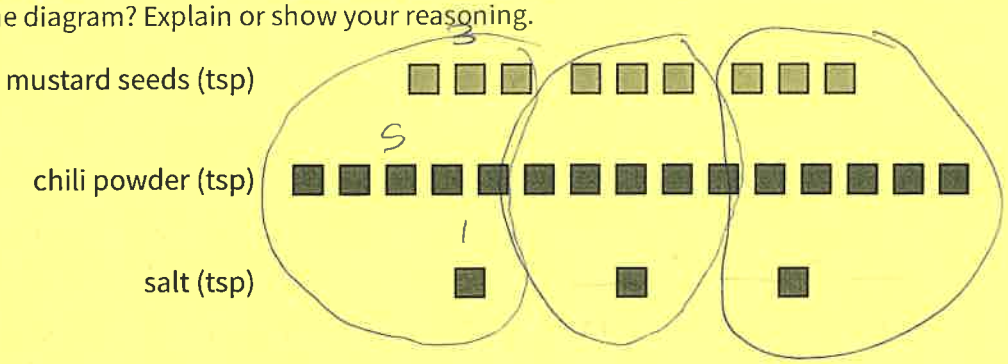
NAME DATE PERIOD

Key

Unit 2, Lesson 3
Practice Problems

1. A recipe for 1 batch of spice mix says, "Combine 3 teaspoons of mustard seeds, 5 teaspoons of chili powder, and 1 teaspoon of salt." How many batches are represented by the diagram? Explain or show your reasoning.



3 batches

2. Priya makes chocolate milk by mixing 2 cups of milk and 5 tablespoons of cocoa powder. Draw a diagram that clearly represents two batches of her chocolate milk.

3. In a recipe for fizzy grape juice, the ratio of cups of sparkling water to cups of grape juice concentrate is 3 to 1.

   a. Find two more ratios of cups of sparkling water to cups of juice concentrate that would make a mixture that tastes the same as this recipe.

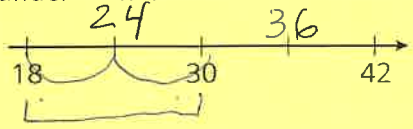
   b. Describe another mixture of sparkling water and grape juice that would taste different than this recipe.

3 : 1

1½ : ½
6 : 2
9 : 3
12 : 4
60 : 20
30 : 10
600 : 200
equivalent

3 : 2
4 : 5
1 : 3
7 : 3
12 : 600,000

4. Write the missing number under each tick mark on the number line.



12 ÷ 2 = 6

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5. At the kennel, there are 6 dogs for every 5 cats.

   a. The ratio of dogs to cats is 6 to 5.
   b. The ratio of cats to dogs is 5 to 6. 10:12
   c. For every 6 dogs there are 5 cats.
   d. The ratio of cats to dogs is 5 : 6.

4

6. Elena has 80 unit cubes. What is the volume of the largest cube she can build with them?

   ___ × ___ × ___ =
   l w h

   2·2·2 = 8
   3·3·3 = 27
   4·4·4 = 64
   5·5·5 = 125

1

7. Fill in the blanks to make each equation true.

   a. $3 \cdot \frac{1}{3} =$ 1
   b. $10 \cdot \frac{1}{10} =$ 1
   c. $19 \cdot \frac{1}{19} =$ 1
   d. $a \cdot \frac{1}{a} =$ 1
   (As long as a does not equal 0.)

   e. $5 \cdot \frac{1}{5} = 1$
   f. $17 \cdot \frac{1}{17} = 1$
   g. $b \cdot \frac{1}{b} = 1$

$\frac{5}{5} \cdot \frac{1}{5} = 1$

5 · .2

1