Assignment

LESSON 3: Tagging Sharks

Write

Describe a situation in which you would use each.

- 1. variable
- 2. means and extremes
- 3. inverse operations
- 4. isolate the variable

Remember

To solve a proportion means to determine all the values of the variables that make the proportion true.

You can rewrite a proportion as the product of the means and extremes.

If
$$\frac{a}{b} = \frac{c}{d}$$
, then $bc = ad$.

Practice

Write and solve a proportion to answer each question.

1. Carmen is making a strawberry drink. The recipe calls for 5 parts strawberry juice to 3 parts water. Carmen would like to make 64 fluid ounces of the strawberry drink. How many fluid ounces of strawberry juice and water does Carmen need?



- 2. Elena is making a grape drink. The recipe calls for 2 parts grape juice concentrate to 6 parts water. Elena would like to make 80 fluid ounces of the grape drink. How many fluid ounces of grape juice concentrate and water does Elena need?
- 3. Jose is making a trail mix. The recipe calls for 3 parts golden raisins to 2 parts cashews. Jose would like to make 30 cups of trail mix. How many cups of golden raisins and cashews does Jose need?
- 4. Miguel is making a snack mix. The recipe calls for 6 parts of spicy tortilla chips to 3 parts of corn chips. Miguel would like to make 45 cups of snack mix. How many cups of spicy tortilla chips and corn chips does Miguel need?
- 5. Carla is making a bean salad. The recipe calls for 4 parts green beans to 3 parts yellow wax beans. Carla would like to make 56 ounces of bean salad. How many ounces of green beans and yellow wax beans does Carla need?
- 6. Shawna is making smoothies. The recipe calls for 2 parts yogurt to 3 parts blueberries. Shawna wants to make 10 cups of smoothie mix. How many cups of yogurt and blueberries does Shawna need?

Stretch

The word four has 4 letters, so the number-to-letter-count ratio for 4 is 1:1, or just 1. Are there any other numbers between 1 and 20 that have equal number-to-letter-count ratios? What are they?

Review

- 1. The table shows the gallons filled in a pool over time.
 - a. Complete the table.

| Number of Hours | <u>1</u> 8 | $\frac{1}{4}$ | 1/2 | <u>5</u> 8 |
|-----------------|---------------|---------------|-----|---------------|
| Gallons Filled | | | 500 | |

- b. Determine a unit rate for this situation.
- 2. Pi is the ratio of what two measures of a circle?
- 3. Which is a better deal—a 16-inch diameter pizza for \$12.99 or an 8-inch diameter pizza for \$6?
- 4. Evaluate each expression for g = 10.

a.
$$9 - 4g + 1$$

b.
$$\frac{20}{g} \div g + (8 - 5)$$