5.2

Ratio Tables

A ratio is a comparison of two quantities. How do ratios relate to making cookies?

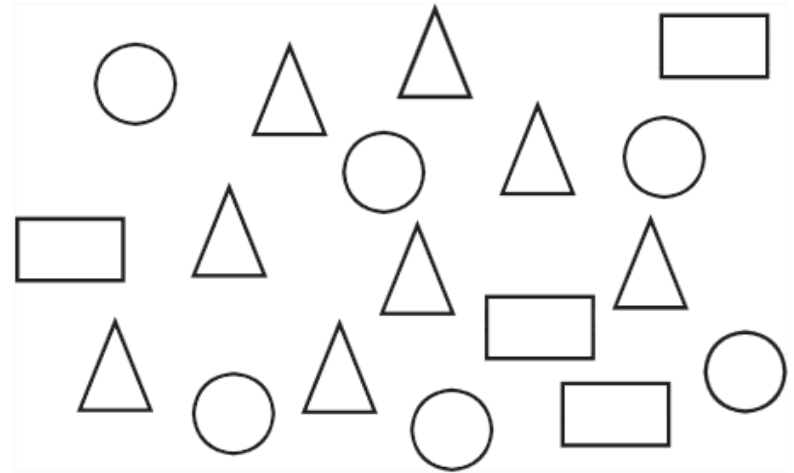# Warm Up

Use the figures to write the ratio.

1. circles to triangles

2. triangles to rectangles

3. rectangles to circles

4. triangles to total number
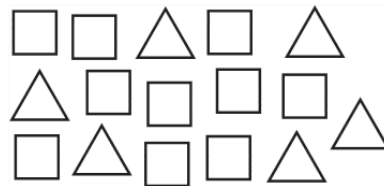   of figures

Warm Up

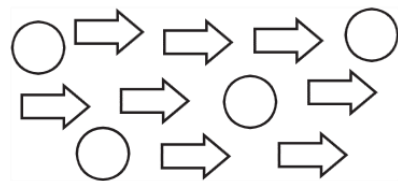**Write several ratios that describe the collection.**
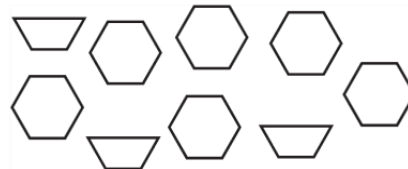
1. stars to hearts

2. squares to triangles

3. circles to arrows
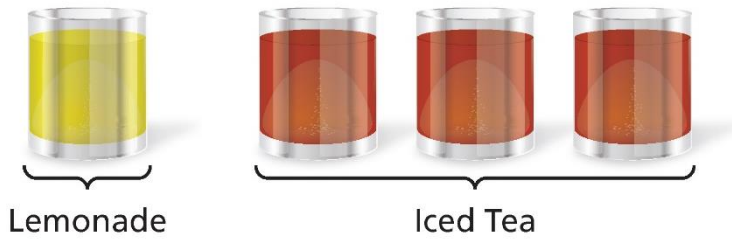
4. trapezoids to hexagons

Exploring Ratio Tables

A mixture calls for 1 cup of lemonade and 3 cups of iced tea.
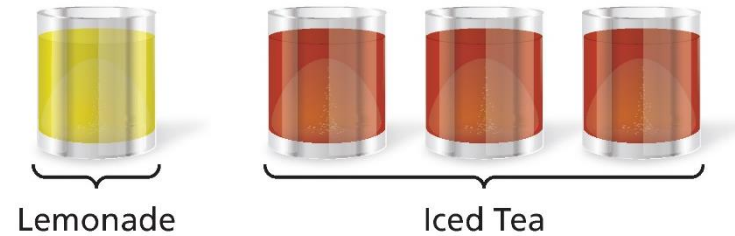
Lemonade   Iced Tea

   a) How many cups does this mixture contain?   _____ cups

   b) How do you make a larger batch of this mixture? Describe your procedure and use the table below to organize your results. Add more columns to the table if needed.

Cups of Lemonade						
Cups of Iced Tea						
Total Cups						

Exploring Ratio Tables

A mixture calls for 1 cup of lemonade and 3 cups of iced tea.
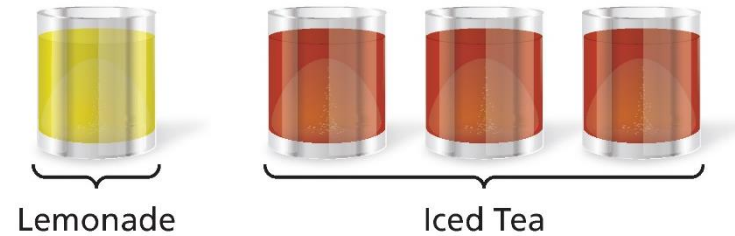
Lemonade   Iced Tea

c) Suppose you take a sip from every group's final mixture. Do you think all the mixtures should taste the same? Do you think the color of all the mixtures should be the same? Explain your reasoning.

d) Why do you think it is useful to use a table when organizing your results in this activity? Explain.

Exploring Ratio Tables

A mixture calls for 1 cup of lemonade and 3 cups of iced tea.

Lemonade   Iced Tea

e) A mixture contains 8 cups of lemonade. How many cups of iced tea are in the mixture?

f) A mixture contains 21 cups of iced tea. How many cups of lemonade are in the mixture?

g) A mixture has a **total of 40** cups. How many cups are lemonade? How many cups are iced tea?

Ratio Tables

Find the missing value(s) in each ratio table. Then write the equivalent ratios.

a.

Pens	1	2	
Pencils	3		9

b.

Dogs	4		24
Cats	6	12	

Ratio Tables

You are making sugar water for your hummingbird feeder. A website indicates to use 4 parts of water for every 1 part of sugar. You use 20 cups of water. How much sugar do you need?

Method 1

Water (cups)					
Sugar (cups)					

Method 2

Water (cups)		
Sugar (cups)		

Application

The nutrition facts label on a box of crackers shows that there are 240 milligrams of sodium in every 36 crackers.

a. You eat 15 crackers. How much sodium do you consume?

Sodium (mg)					
Crackers					

b. You eat 21 crackers. How much sodium do you consume?

Sodium (mg)					
Crackers					

Application

You mix 3 pints of yellow paint for every 4 pints of blue paint to make green paint. You use 10 pints of blue paint. How much green paint do you make?

Yellow (pints)					
Blue (pints)					

Application

You mix 3 pints of yellow paint for every 4 pints of blue paint to make green paint. You use 10 pints of blue paint. How much green paint do you make?

Yellow (pints)					
Blue (pints)					