

Name _____

Equal Parts of a Whole

When you divide a shape into **equal parts**, each part must be exactly the same size.

This rectangle is divided into **2** equal parts, or **halves**.



This rectangle is divided into **3** equal parts, or **thirds**.

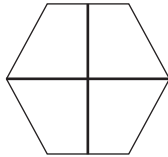


This rectangle is divided into **4** equal parts, or **fourths**.



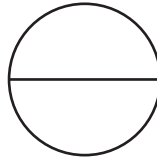
Write the number of equal parts. Then write the name for the parts.

1.



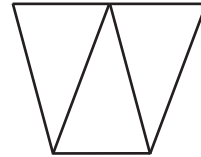
_____ equal parts

2.



_____ equal parts

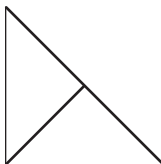
3.



_____ equal parts

Write whether each shape is divided into *equal* parts or *unequal* parts.

4.



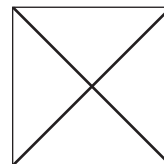
_____ parts

5.



_____ parts

6.



_____ parts

Draw lines to divide the squares into equal parts.

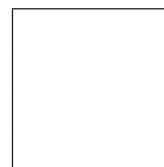
7. 3 thirds



8. 6 sixths



9. 8 eighths



Name _____

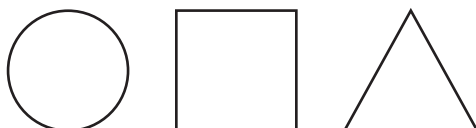
Way to Share!

Draw lines to divide each shape 3 different ways into the number of parts given.

1. 4 equal parts




2. 3 equal parts

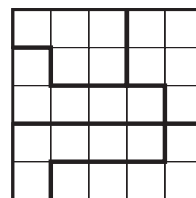


3. 6 equal parts



4.  **Write Math** Look back at Exercise 1. How did you decide where to divide each square?

5. **Stretch Your Thinking** How do you know the square is divided into equal parts even though they are not the same shape?



Name _____

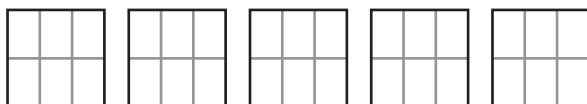
Equal Shares

Six brothers share 5 sandwiches equally. How much does each brother get? Draw to model the problem.

Step 1 Draw 5 squares for the sandwiches.



Step 2 There are 6 brothers. Draw lines to divide each sandwich into 6 equal parts.



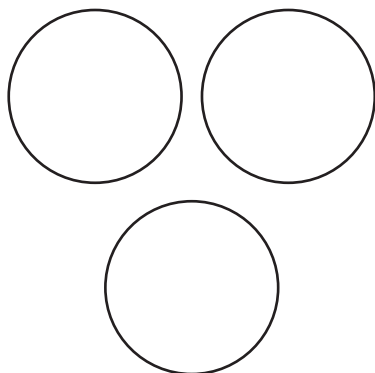
Step 3 Each brother will get 1 equal part from each sandwich.

So, each brother gets **5 sixths** of a sandwich.

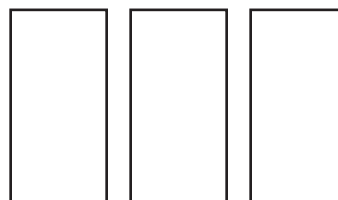
Draw lines to show how much each person gets.

Write the answer.

1. 4 sisters share 3 pies equally.



2. 6 friends share 3 fruit bars equally.

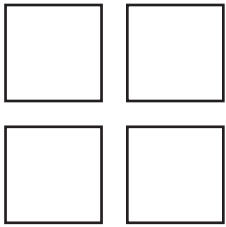


Name _____

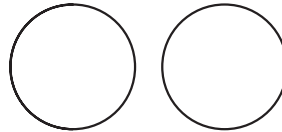
A Fair Share

Mary and her 3 friends go on a picnic. They share some food. Show how they can make the fewest cuts possible to share the food equally among 4 people. Shade your drawing to show one person's share. Then write how much each person gets.

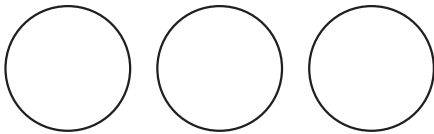
1. 4 sandwiches



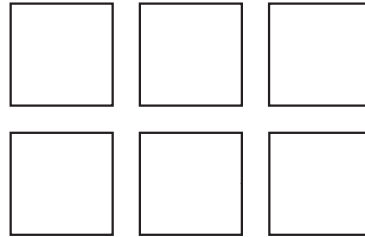
2. 2 muffins



3. 3 small pizzas



4. 6 granola bars



5. **Write Math** How can you tell if an equal share is more than one whole? Use an example from above to explain your answer.

Name _____

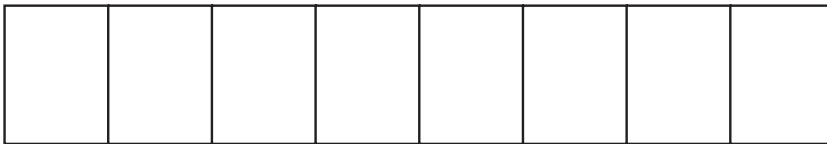
Unit Fractions of a Whole

A **fraction** is a number. It names part of a whole or part of a group.

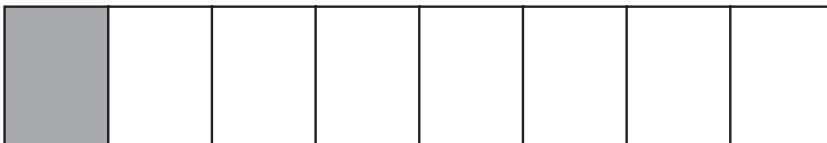
The top number tells how many equal parts are being counted.
The bottom number tells how many equal parts are in the whole.
A **unit fraction** names 1 equal part of a whole. It always has 1 as its top number.

How much is 1 part of a fruit bar that is cut into 8 equal parts?

Step 1 Use fraction strips. Make a strip showing 8 equal parts, or eighths.



Step 2 Shade 1 of the parts and name it.

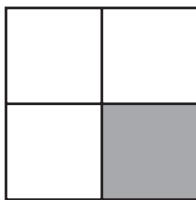


This fraction is called $\frac{1}{8}$.

So, 1 part of a fruit bar that can be divided into 8 equal parts is $\frac{1}{8}$.

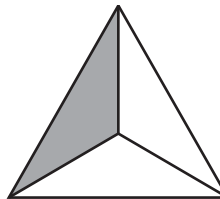
**Write the number of equal parts in the whole.
Then write the fraction that names the shaded part.**

1.



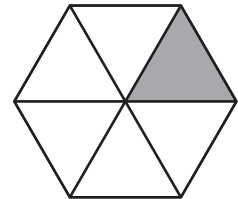
_____ equal parts

2.



_____ equal parts

3.



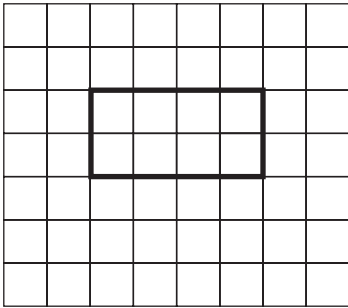
_____ equal parts

Name _____

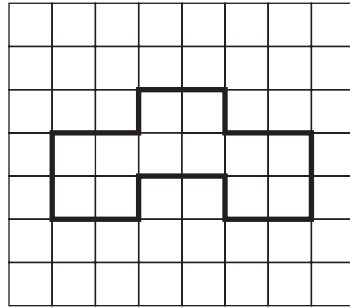
Whole Lot of Fractions!

Draw lines and shade each shape to show the fraction.

1. $\frac{1}{2}$



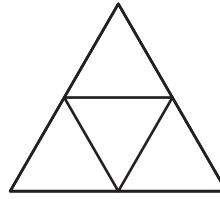
2. $\frac{1}{4}$



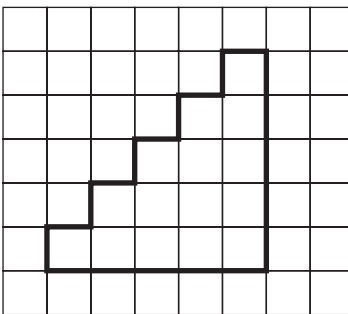
3. $\frac{1}{4}$



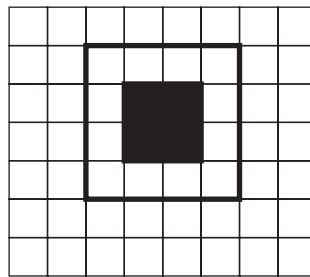
4. $\frac{1}{8}$



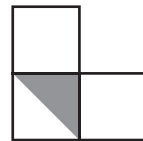
5. $\frac{1}{3}$



6. $\frac{1}{2}$



7. **Stretch Your Thinking** What unit fraction of the figure is shaded? **Explain** your answer.



Name _____

Fractions of a Whole

Some shapes can be cut into equal parts.
A fraction can name more than 1 equal part of a whole.

Write a fraction in words and in numbers to name the shaded part.



How many equal parts make up the whole shape? **6 equal parts**

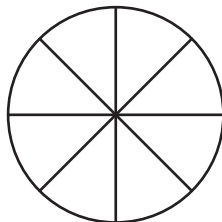
How many parts are shaded? **3 parts**

So, 3 parts out of 6 equal parts are shaded. Read: **three sixths**. Write: $\frac{3}{6}$

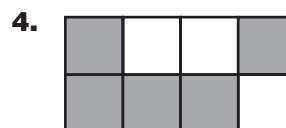
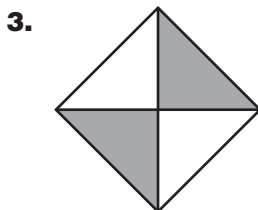
- 1.** Shade three parts out of eight equal parts. Write a fraction in words and in numbers to name the shaded part.

Read: _____ eighths

Write: _____



Write the fraction that names each part. Write a fraction in words and in numbers to name the shaded part.



Each part is _____.

_____ sixths

Each part is _____.

_____ fourths

Each part is _____.

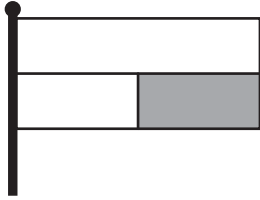
_____ eighths

Name _____

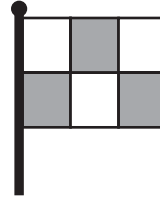
Flag Fractions

Write a fraction to name the shaded part of each flag.

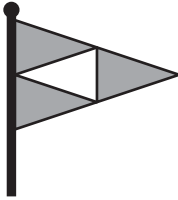
1.



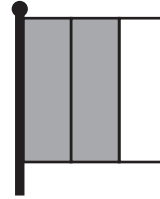
2.



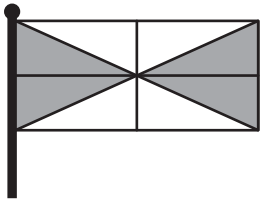
3.



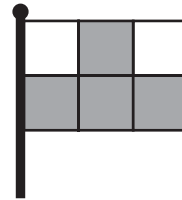
4.



5.



6.



7. **Write Math** Draw your own flag. Divide it into equal parts. Shade some of the equal parts. Then write the fraction that names the shaded part of your flag.

Name _____

Fractions on a Number Line

Use the fraction strips to help name the points on the number line.

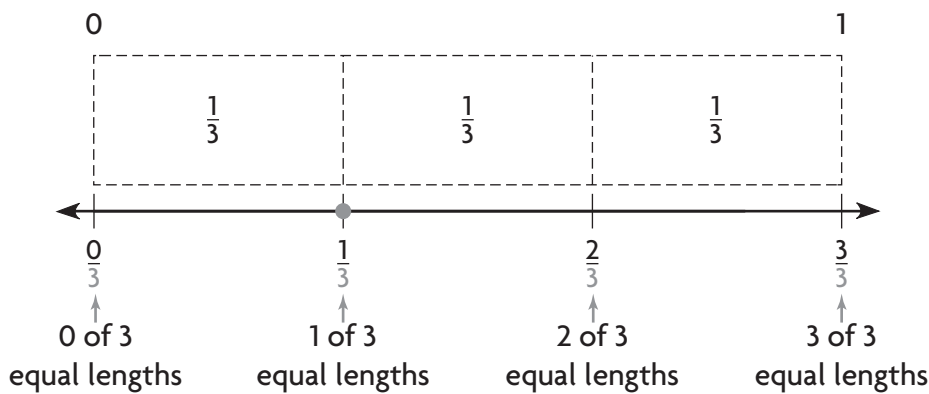
Draw a point to show $\frac{1}{3}$.

Step 1 The denominator is 3, so use fraction strips for thirds. Place the fraction strips above the number line. Use the fraction strips to divide the number line into three equal lengths.

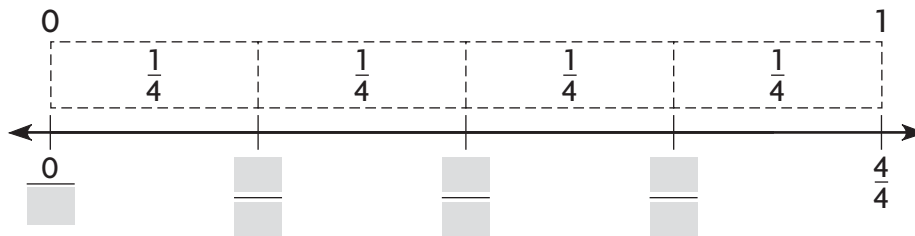
Step 2 Label each mark on the number line.

Think: The distance between each mark is $\frac{1}{3}$ of the total distance, so count the number of $\frac{1}{3}$ lengths.

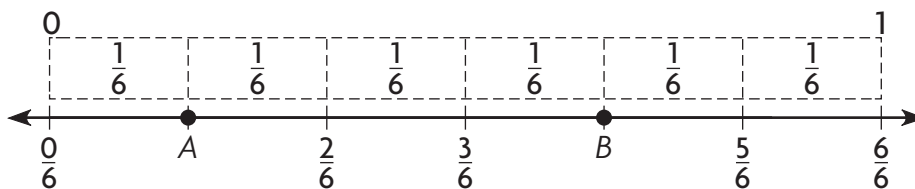
Step 3 Draw a point on the number line to show $\frac{1}{3}$.



1. Complete the number line. Draw a point to show $\frac{2}{4}$.



Write the fraction that names the point.



2. point A _____

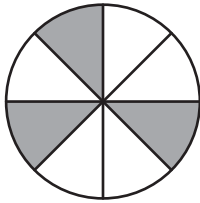
3. point B _____

Name _____

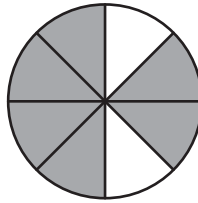
Fraction Find

Write a fraction that names the shaded part of each whole. Then locate the fraction on the number line below. Write the letter of the model that represents the fraction.

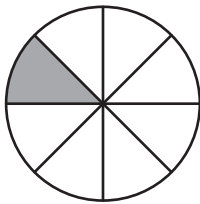
A.



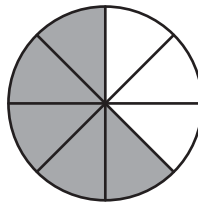
B.



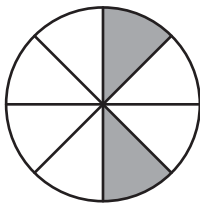
C.



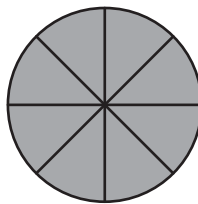
D.

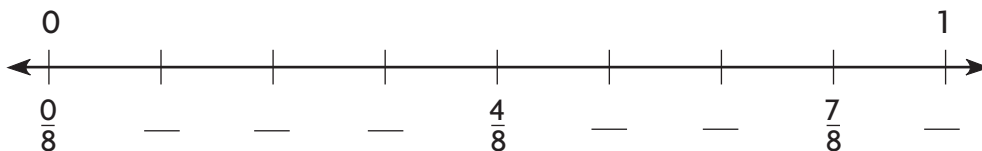


E.



F.





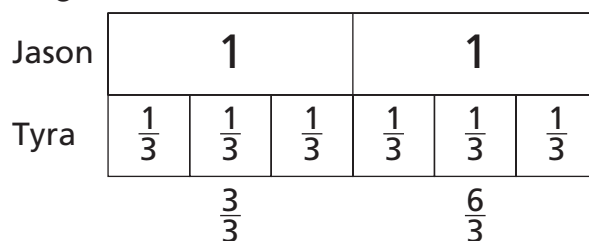
Name _____

Relate Fractions and Whole Numbers

A fraction greater than 1 has a numerator greater than its denominator.

Jason ran 2 miles and Tyra ran $\frac{6}{3}$ miles. Did Jason and Tyra run the same distance?

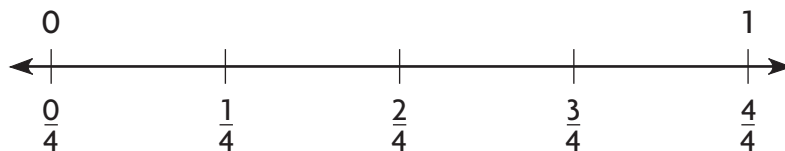
Step 1 Use fraction strips to show the distances.
Use 2 whole strips to show Jason's distance.
Use six $\frac{1}{3}$ -strips to show Tyra's distance.



Step 2 Compare the fraction strips.
Since the fraction strips for 2 and $\frac{6}{3}$ are the same length, they are equal.

So, Jason and Tyra ran the same distance.

Use the number line to find whether the two numbers are equal. Write *equal* or *not equal*.



1. $\frac{4}{4}$ and 1

2. 1 and $\frac{3}{4}$

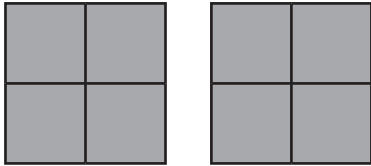
3. $\frac{1}{4}$ and $\frac{4}{4}$

Name _____

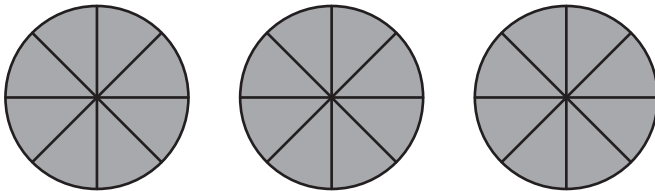
Fraction and Whole Number Match

For each model, write a fraction greater than 1 for the parts that are shaded. Then, for 1–3, write the letter of the model below the dashed line that shows the same whole number.

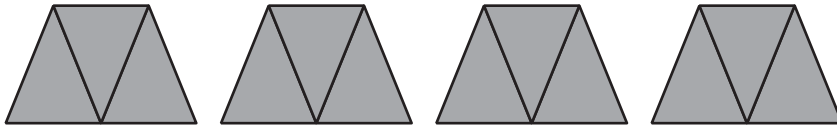
1.



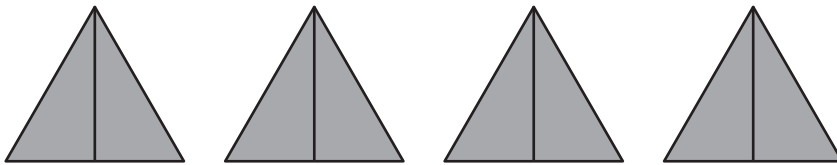
2.



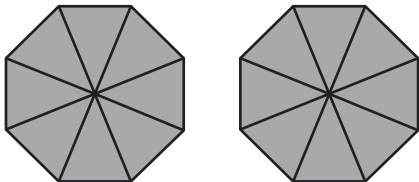
3.



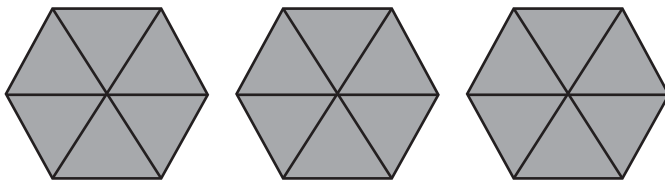
A.



B.



C.

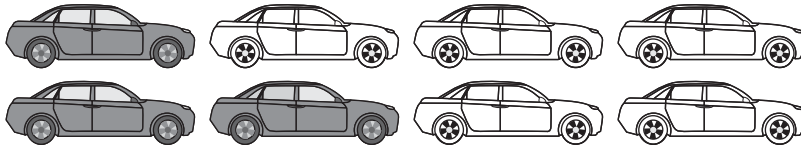


Name _____

Fractions of a Group

Adam has a collection of cars.

What fraction names the shaded part of the collection?



Step 1 Count how many cars are shaded. There are **3** shaded cars. This number will be the **numerator**, or the top number of the fraction.

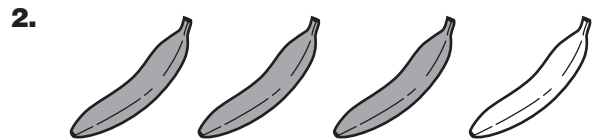
Step 2 Count the total number of cars. **8** This number will be the **denominator**, or the bottom number of the fraction.

Step 3 Read the fraction: three eighths, or three out of eight.

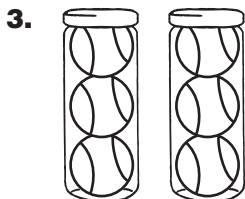
So, $\frac{3}{8}$ of Adam's cars are shaded.

Write a fraction to name the shaded part of each group.

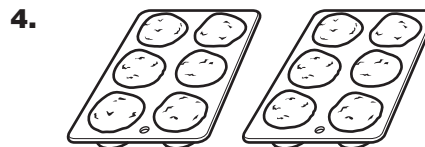




Write a whole number and a fraction greater than 1 to name the part filled.



Think: 1 can = 1



Think: 1 pan = 1

Name _____

Fruit Fractions

Use the bowl of fruit to answer the questions.
The bowl has 3 strawberries, 2 bananas,
and 1 apple.



1. What fraction of the fruit in the bowl is bananas?

2. What fraction of the fruit in the bowl is apples?

3. What fraction of the fruit in the bowl is strawberries?

4. What fraction of the fruit in the bowl is bananas and strawberries?

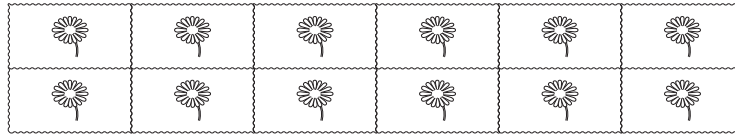
5. **Stretch Your Thinking** Suppose 2 oranges are hidden under the fruit you can see in the bowl. What fraction of the fruit is oranges?

6. **Write Math** Write your own problem about fractions of a group. Use the fruit in the bowl. Then write the answer.

Name _____

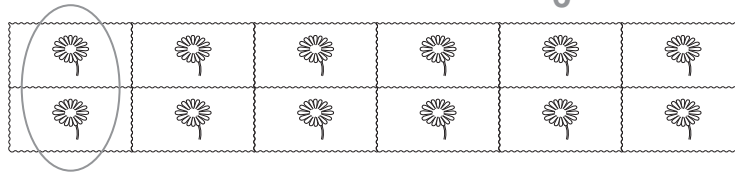
Find Part of a Group Using Unit Fractions

Lauren bought 12 stamps for postcards. She gave Brianna $\frac{1}{6}$ of them. How many stamps did Lauren give to Brianna?



Step 1 Find the total number of stamps. **12** stamps

Step 2 Since you want to find $\frac{1}{6}$ of the group, there should be 6 equal groups. Circle one of the groups to show $\frac{1}{6}$.



Step 3 Find $\frac{1}{6}$ of the stamps. How many stamps are in 1 group? **2** stamps

So, Lauren gave Brianna 2 stamps. $\frac{1}{6}$ of 12 = 2

Circle equal groups to solve. Count the number of shapes in 1 group.

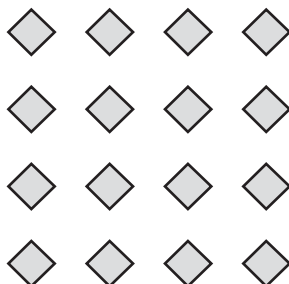
1. $\frac{1}{4}$ of 8 = _____



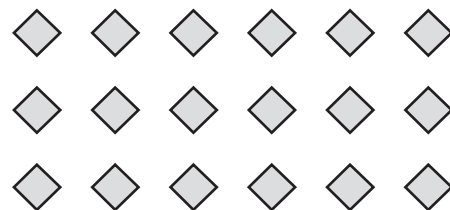
2. $\frac{1}{3}$ of 9 = _____



3. $\frac{1}{4}$ of 16 = _____



4. $\frac{1}{6}$ of 18 = _____



Name _____

Part of the Group

Evan and his friends go to a theme park. Each friend buys 24 tickets and rides only 1 ride. Solve the problem.

1. Evan uses $\frac{1}{3}$ of his tickets to ride the Loop-D-Loop. How many tickets does he use?

2. Omar uses $\frac{1}{6}$ of his tickets to ride the water slide. How many tickets does he use?

3. Kate uses $\frac{1}{2}$ of her tickets to ride the roller coaster. How many tickets does she use?

4. Jenny uses $\frac{1}{4}$ of her tickets to ride the merry-go-round. How many tickets does she use?

5. **Stretch Your Thinking** Use the information in 1–4 to find the number of tickets each friend has left.

Name	Number of Tickets Left
Evan	
Omar	
Kate	
Jenny	

6. **Write Math** The friends now want to go on the Loop-D-Loop and the roller coaster. Explain why only 1 of the friends can go on both of these rides.

Name _____

Problem Solving • Find the Whole Group Using Unit Fractions

There are 3 apple juice boxes in the cooler. One fourth of the juice boxes in the cooler are apple juice. How many juice boxes are in the cooler?

Read the Problem	Solve the Problem
<p>What do I need to find?</p> <p>I need to find <u>how many juice boxes</u> are in the cooler.</p>	<p>Describe how to draw a diagram to solve.</p> <p>The denominator in $\frac{1}{4}$ tells you that there are <u>4</u> parts in the whole group. Draw 4 circles to show <u>4</u> parts.</p>
<p>What information do I need to use?</p> <p>There are <u>3</u> apple juice boxes.</p> <p><u>One fourth</u> of the juice boxes are apple juice.</p>	<p>Since 3 juice boxes are $\frac{1}{4}$ of the group, draw <u>3</u> counters in the first circle.</p> <p>Since there are <u>3</u> counters in the first circle, draw <u>3</u> counters in each of the remaining circles. Then count all of the counters.</p>
<p>How will I use the information?</p> <p>I will use the information in the problem to draw a diagram.</p>	<p>So, there are <u>12</u> juice boxes in the cooler.</p>



1. Max has 3 beta fish in his fish tank. One half of his fish are beta fish. How many fish does Max have in his tank?

2. Two boys are standing in line. One sixth of the students in line are boys. How many students are standing in line?

Name _____

What Part of the Group?

Draw a quick picture to solve.

1. Lisa's dog has 4 squeaky toys. Two thirds of the dog's toys are squeaky toys. How many dog toys does Lisa's dog have in all?
2. Sam has 9 yellow pencils in his desk. Three fourths of his pencils are yellow. How many pencils does Sam have in his desk?

3. Julia has 8 red barrettes. Two fourths of her barrettes are red. How many barrettes does Julia have?
4. Antonio has 15 pennies in his pocket. Five eighths of his coins are pennies. How many coins does Antonio have in his pocket?

5. **Stretch Your Thinking** One half of the birds at a pet store are yellow. Tara buys one of the yellow birds. Then one third of the birds at the store are yellow. How many yellow birds were at the pet store before Tara bought one? **Explain** how you know.
