

Name \_\_\_\_\_

## Fractions of a Whole

**Essential Question** How does a fraction name part of a whole?

**Learning Objective** You will use fraction models to name equal parts of a whole.

### Unlock the Problem

The first pizzeria in America opened in New York in 1905. The pizza recipe came from Italy. Look at Italy's flag. What fraction of the flag is not red?

 **Name equal parts of a whole.**

A fraction can name more than 1 equal part of a whole.

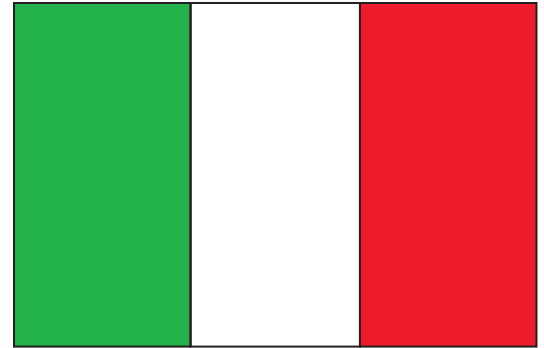
The flag is divided into 3 equal parts, and 2 parts are not red.

2 parts not red →  $\frac{2}{3}$  ← numerator  
3 equal parts in all →  $\frac{2}{3}$  ← denominator

**Read:** two thirds or two parts out of three equal parts

**Write:**  $\frac{2}{3}$

So,  $\frac{2}{3}$  of the flag is not red.



▲ Italy's flag has three equal parts.

#### Math Idea

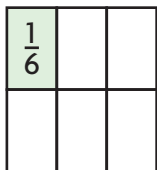
When all the parts are shaded, one whole shape is equal to all of its parts. It represents the whole number 1.

$$\frac{3}{3} = 1$$

The **numerator** tells how many parts are being counted.

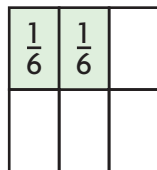
The **denominator** tells how many equal parts are in the whole or in the group.

You can count equal parts, such as sixths, to make a whole.



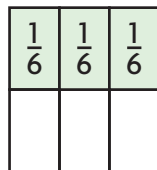
One  $\frac{1}{6}$  part

$$\frac{1}{6}$$



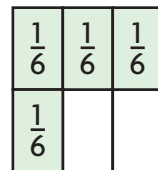
Two  $\frac{1}{6}$  parts

$$\frac{2}{6}$$



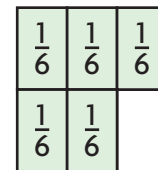
Three  $\frac{1}{6}$  parts

$$\frac{3}{6}$$



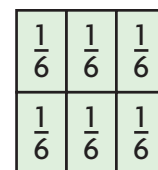
Four  $\frac{1}{6}$  parts

$$\frac{4}{6}$$



Five  $\frac{1}{6}$  parts

$$\frac{5}{6}$$

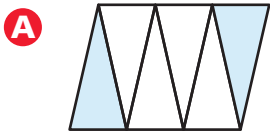


Six  $\frac{1}{6}$  parts

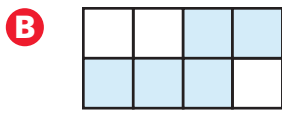
$$\frac{6}{6}$$

For example,  $\frac{6}{6} =$  one whole, or 1.

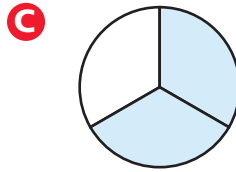
**Try This!** Write the missing word or number to name the shaded part.



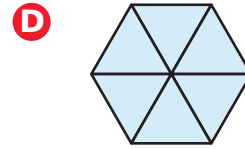
$\frac{2}{6}$   
 \_\_\_\_\_ sixths



$\frac{5}{8}$   
 \_\_\_\_\_ eighths



$\frac{\square}{3}$   
 two thirds



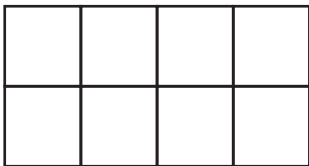
$\frac{\square}{6}$ , or 1  
 six sixths, or one whole

**Share and Show**



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

**Think:** Each part is  $\frac{1}{8}$ .



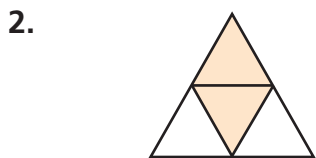
**Read:** \_\_\_\_\_ eighths      **Write:** \_\_\_\_\_



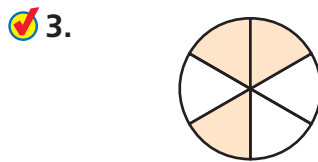
**Math Processes and Practices 8**

**Generalize** What do the numerator and denominator of a fraction tell you?

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



Each part is \_\_\_\_\_.  
 \_\_\_\_\_ fourths  
 \_\_\_\_\_



Each part is \_\_\_\_\_.  
 \_\_\_\_\_ sixths  
 \_\_\_\_\_



Each part is \_\_\_\_\_.  
 \_\_\_\_\_ fourths  
 \_\_\_\_\_

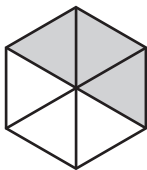
Name \_\_\_\_\_

## Fractions of a Whole

**Learning Objective** You will use fraction models to name equal parts of a whole.

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

1.



Each part is  $\frac{1}{6}$ .

three sixths

$\frac{3}{6}$

2.

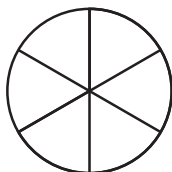


Each part is \_\_\_\_\_.

\_\_\_\_\_ eighths

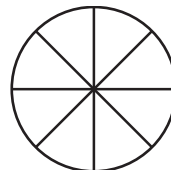
Shade the fraction circle to model the fraction.  
Then write the fraction in numbers.

3. four out of six



\_\_\_\_\_

4. eight out of eight



\_\_\_\_\_

### Problem Solving



5. Emma makes a poster for the school's spring concert. She divides the poster into 8 equal parts. She uses two of the parts for the title. What fraction of the poster does Emma use for the title?

\_\_\_\_\_

6. Lucas makes a flag. It has 6 equal parts. Five of the parts are red. What fraction of the flag is red?

\_\_\_\_\_

7. **WRITE** *Math* Draw a rectangle and divide it into 4 equal parts. Shade 3 parts. Then write the fraction that names the shaded part.

\_\_\_\_\_  
\_\_\_\_\_