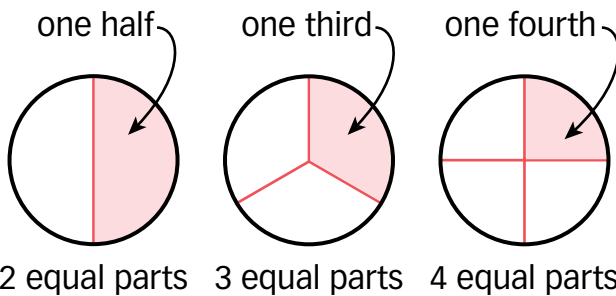## *Understand*
What a Fraction Is

Name: _____

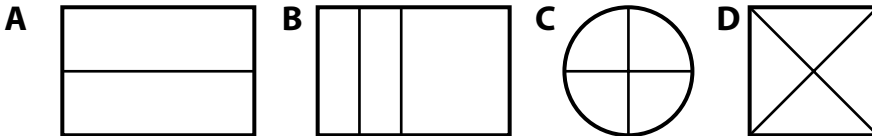**Prerequisite: How can you find equal parts of a shape?**

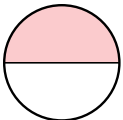**Study the example showing shapes divided into equal parts. Then solve problems 1–6.**

Example

The circles are divided into equal parts. You use the number of equal parts to name the parts.

one half   one third   one fourth

2 equal parts   3 equal parts   4 equal parts

1 Which of these shows equal parts? Circle the letter for all that apply.
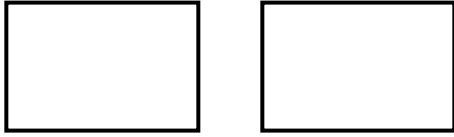
A   B   C   D

Fill in the blanks.

2 _____ equal parts

Each part is one _____.

3 _____ equal parts

Each part is one _____.

Solve.

4   Divide the rectangles to make 4 equal parts in each one. Show a different way in each rectangle.

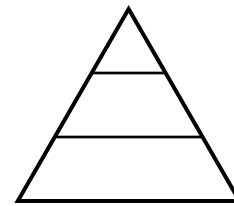5   Which triangle is divided into thirds?

Explain your answer. _____

_____
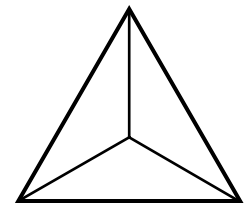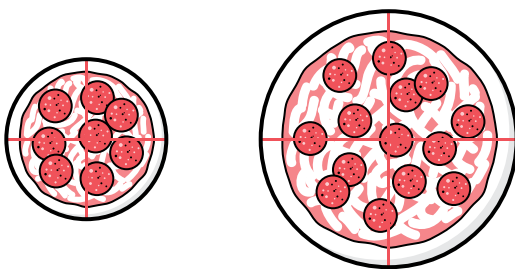
_____

_____

_____

Triangle A   Triangle B

6   Each pizza is cut into fourths. There are 8 people sharing the pizzas shown below. If each person takes one slice, will everyone get the same amount of pizza? Explain your answer.
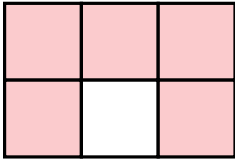
_____

_____

_____

_____

_____

Name: _____

Describe Parts of a Whole with Fractions

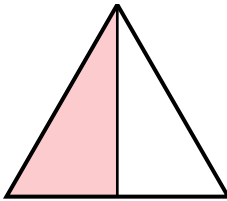**Study the example that shows how to write a fraction for parts of a whole. Then solve problems 1–8.**

Example

- There are 6 equal parts.
- Each part is one sixth.
- 5 parts are shaded.
- 5 sixths of the whole is shaded.
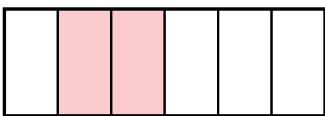- This shows the fraction $\frac{5}{6}$.

Fill in the blanks.

1

_____ shaded parts

_____ equal parts

_____ fraction

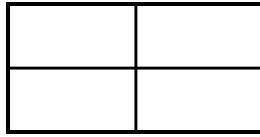**2**

_____ shaded parts

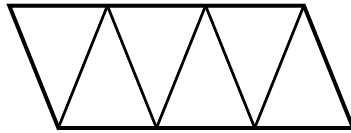_____ equal parts

_____ fraction

Vocabulary

fraction a number that names part of a whole.

Solve.

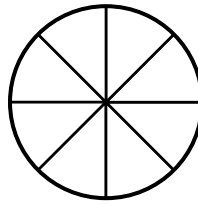**3** Shade this shape to show $\frac{3}{4}$.
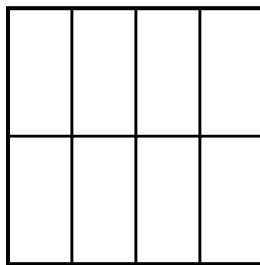
4 Shade this shape to show $\frac{2}{6}$.

5 Shade 3 parts.

What fraction is shaded? _____

6 Shade 7 parts.

What fraction is shaded? _____

7 ▯ is $\frac{1}{4}$ of a rectangle.

Draw the rectangle. Show the parts.

8 ◺ is $\frac{1}{4}$ of a rectangle.

Draw the rectangle. Show the parts.

Then shade $\frac{2}{4}$ of your rectangle.

Name: _____

Reason and Write

Study the example. Underline two parts that you think make it a particularly good answer and a helpful example.

Example

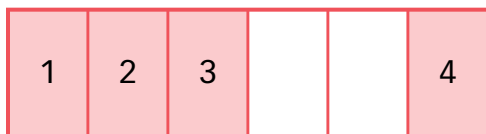Draw a rectangle with $\frac{4}{6}$ of it shaded.

Explain how you decided what to draw.

Show your work. Use pictures, words, or numbers to explain how you decided what to draw.

First I thought about how many equal parts are in $\frac{4}{6}$. There are 6 equal parts, so I drew 6 rectangles in a row to make one big rectangle with 6 equal parts.

Then I looked at the numerator. The 4 tells me that I should shade 4 parts. Since they are all the same, I can shade any 4. Here is the same rectangle with 4 parts shaded.

1	2	3			4

This rectangle has 4 out of 6 equal parts shaded, so $\frac{4}{6}$ of the rectangle is shaded.

> Where does the example . . .
> • use a picture to explain?
> • use numbers to explain?
> • use words to explain?
> • give details?

Solve the problem. Use what you learned from the model.

Draw a rectangle with $\frac{3}{8}$ of it shaded.

Explain how you decided what to draw.

Show your work. Use pictures, words, or numbers to explain how you decided what to draw.

Did you . . .
- use a picture to explain?
- use numbers to explain?
- use words to explain?
- give details?