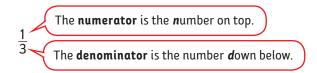
▶The Numerator and the Denominator Lesson **Monitoring Progress:** ▶Quiz 1

The Numerator and the Denominator

What do the different parts of a fraction mean?

The two parts of a fraction are the **numerator** and the **denominator**. The numerator is the number on top, and the denominator is the number down below. Each number tells a different part of the fraction. Here is an easy way to remember the difference between the two words:



The Denominator

The denominator (the number down below) tells the total number of parts in the fraction.

How many total parts are in the fraction $\frac{1}{2}$?

$$\frac{1}{3}$$
 denominator

The total number of parts is 3.

Let's look at these shapes. They are divided into thirds. Each has three total parts. Each shows "fair shares."







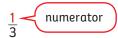
Vocabulary

numerator denominator

The Numerator

The numerator (the number on top) tells us the number of parts in the whole fraction.

Let's look at the fraction $\frac{1}{3}$.



The numerator is 1, which means we have 1 part.



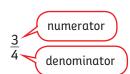




The shaded part in each figure tells how many parts of the whole we have. Each of these shapes represents the fraction $\frac{1}{3}$.

Example 1

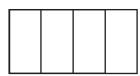
Find the total parts of the fraction. Then tell the parts of the whole fraction.



Look at the denominator (the number down below).







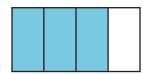
There are 4 total parts.

Find the parts of the whole fraction.

Look at the numerator (the number on top).







There are 3 parts.

How do we write a whole number as a fraction?

When we shade all the parts of a shape, we have a fraction equal to one.

<u>2</u>

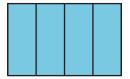


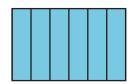




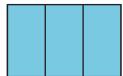
Example 1

Draw a rectangle to match the fractions $\frac{4}{4}$, $\frac{6}{6}$, and $\frac{3}{3}$.





<u>3</u>



Homework

Activity 1

Draw the shape on your paper and use shading to show the fraction.

Model Show $\frac{2}{3}$ using a rectangle.

Answer:

- **1**. Show $\frac{1}{4}$ using a circle.
- **2**. Show $\frac{1}{2}$ using a triangle.
- **3**. Show $\frac{7}{8}$ using a square.
- **4.** Show $\frac{3}{3}$ using a rectangle.

Activity 2

Tell what fraction is represented by the shaded part of the pictures. Then answer the question about the fraction.

Model What is the fraction? What is the denominator?

Answer: The fraction is $\frac{1}{2}$. The denominator is 2.

1. What is the fraction? What is the numerator?

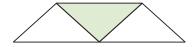
2. What is the fraction? What are the total parts?



Lesson 5

Homework

3. What is the fraction? What is the denominator?



4. What is the fraction? What are the "parts we have"?



Activity 3 • Distributed Practice

Solve.

- 4,007 1. - 2,129
- 500 2. + 700
- 37 3. × 42
- 800 4.
- **5**. 6)345 × 3