

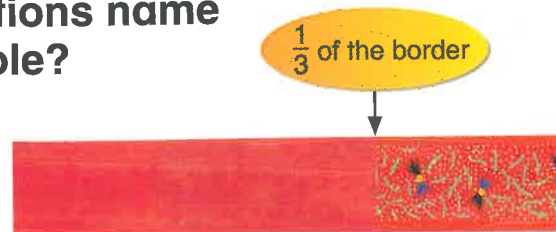
# Finding Equivalent Fractions

## Understand it!

The same fractional amount can be named in different ways.

**How can different fractions name the same part of a whole?**

Sonya has decorated  $\frac{1}{3}$  of the border. What are two other ways to name  $\frac{1}{3}$ ?



Different fractions can name the same part of a whole.

## Another Example

**How can you write a fraction in simplest form?**

Division facts that you know will help you find equivalent fractions.

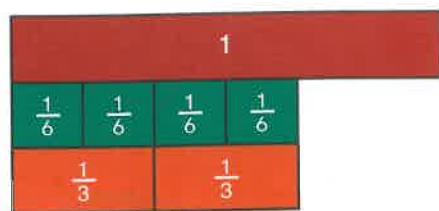
Max has coloured  $\frac{4}{6}$  of a border. What is the simplest form of  $\frac{4}{6}$ ?

The **simplest form** of a fraction is *a fraction with a numerator and denominator that cannot be divided by the same divisor, except 1.*



## One Way

Use models.



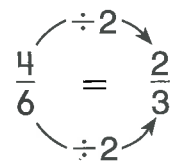
$$\frac{4}{6} = \frac{2}{3}$$

The simplest form of  $\frac{4}{6}$  is  $\frac{2}{3}$ .

## Another Way

Divide the numerator and denominator by the same number.

Find a divisor that both the numerator and denominator can be divided by evenly.



Both 4 and 6 can be evenly divided by 2.

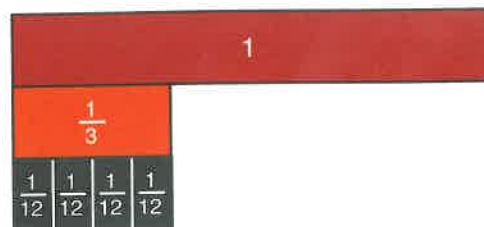
The numerator and denominator of  $\frac{2}{3}$  cannot be divided evenly by the same divisor except 1.

The simplest form of  $\frac{4}{6}$  is  $\frac{2}{3}$ .

## Guided Practice

- Copy and complete the number sentence. Use fraction strips or make drawings on grid paper.

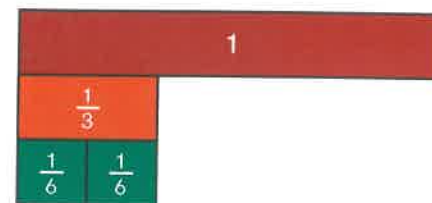
$$\frac{1}{3} = \frac{\square}{12}$$



$$\frac{1}{3} = \frac{2}{6}$$

You can use fraction strips. The denominators of the fractions tell which fraction strips to use.

Find how many  $\frac{1}{6}$ s are equal to  $\frac{1}{3}$ .



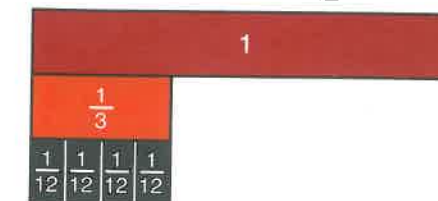
Two  $\frac{1}{6}$  strips are equal to  $\frac{1}{3}$ , so  $\frac{1}{3} = \frac{2}{6}$ .  
Another name for  $\frac{1}{3}$  is  $\frac{2}{6}$ .

$$\frac{1}{3} = \frac{4}{12}$$

You can use fraction strips.

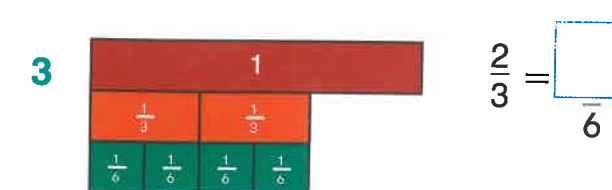
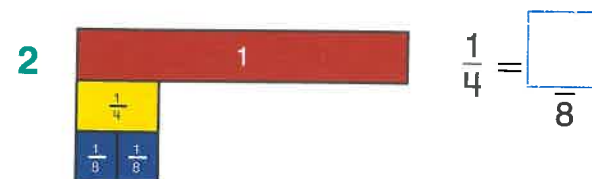
The denominator is 12 so use  $\frac{1}{12}$  strips.

Find how many  $\frac{1}{12}$ s are equal to  $\frac{1}{3}$ .



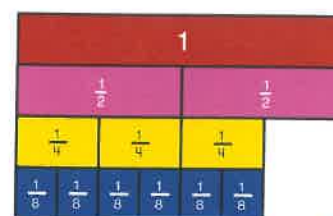
Four  $\frac{1}{12}$  strips are equal to  $\frac{1}{3}$ , so  $\frac{1}{3} = \frac{4}{12}$ .  
Another name for  $\frac{1}{3}$  is  $\frac{4}{12}$ .

Complete each number sentence.



## Independent Practice

Use the fraction strips to find equivalent fractions.



4  $\frac{2}{4} = \frac{\square}{\square}$

6  $\frac{6}{8} = \frac{\square}{\square}$

5  $\frac{2}{8} = \frac{\square}{\square}$

7  $\frac{4}{8} = \frac{\square}{\square}$

## Problem Solving

- I am equivalent to  $\frac{1}{3}$ .  
My numerator and denominator can both be divided by 5.  
My denominator is a multiple of 6.  
What fraction am I?



- Make up an equivalent puzzle like the one above for your partner to solve.

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