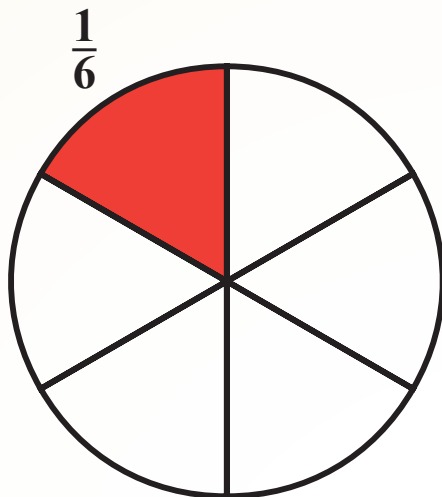


What You Need to Know

A **fraction** is a way to show the number of parts in a **whole**.

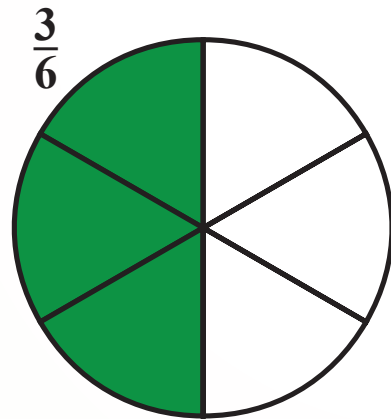
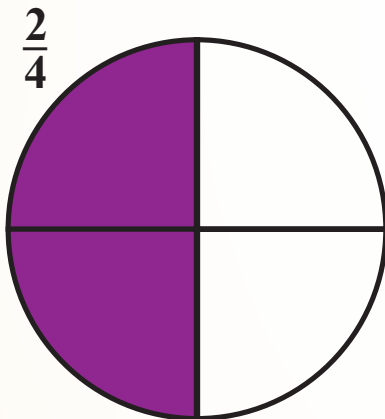
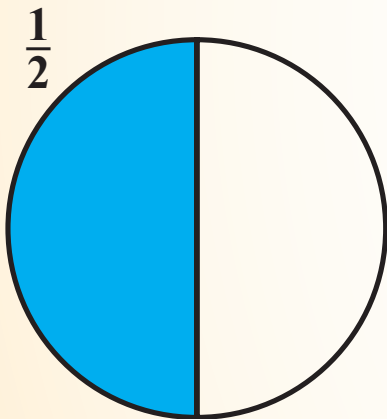
You eat one slice, or $\frac{1}{6}$, of this yummy pumpkin pie.

The 1 is the **numerator**, or the part you gobbled up. The 6 is the **denominator**, or the total slices that make up the whole pie.



Equivalent fractions are two different fractions that show the same part of a whole. But they are written in different ways.

No matter how you slice it, the shaded parts of these cakes are all equal. $\frac{1}{2}$, $\frac{2}{4}$, and $\frac{3}{6}$ are equivalent fractions. This is because they name the same parts of a whole.

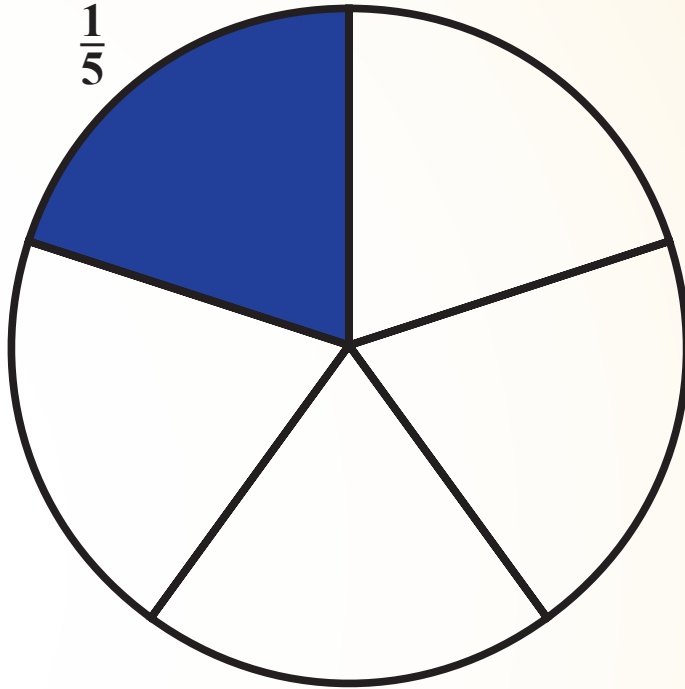


You can add and subtract fractions as long as the total parts, or denominators, are the same. If they are different, you can change one fraction to match the other. Just make sure you change both the top and bottom numbers!

$$\frac{1}{4} + \frac{1}{8} \rightarrow \frac{1}{4} (\times 2) = \frac{2}{8} \rightarrow \frac{2}{8} + \frac{1}{8} = \frac{3}{8}$$

A fraction can also be written as a **decimal** or a **percent**.

You split one giant cookie with five friends. You each get $\frac{1}{5}$.



How do you show this as a decimal? You convert it to tenths. Multiply the top and bottom by the same number. When you do, it stays equivalent.

$$\frac{1}{5} \begin{matrix} (\times 2) \\ (\times 2) \end{matrix} = \frac{2}{10} \rightarrow \frac{2}{10} = 0.2$$

So $\frac{1}{5}$ is $\frac{2}{10}$ and 0.2 in decimal form.

How do you change a decimal to a percent? You move the decimal point two places to the right.

$$0.2 = 20\%$$

$\frac{1}{5}$, 0.2, and 20% are different ways to show the same amount!

The bakers race around the kitchen, gathering their ingredients as fast as they can. Remi pauses to study the recipe. The recipe calls for $\frac{1}{2}$ cup of sugar, but he can only find a measuring cup labeled $\frac{1}{4}$ and one labeled $\frac{1}{3}$. Remi uses what he knows about adding fractions and chooses the $\frac{1}{4}$ cup. If he adds $\frac{1}{4} + \frac{1}{4}$ he will get $\frac{2}{4}$, or $\frac{1}{2}$!





Work It Out

Amma needs to know which measuring cup is equal to .25. She knows how to write .25 as a fraction: $\frac{25}{100}$. She also knows that she can reduce the fraction because 25 goes into both the numerator and the denominator.

$$25 \div 25 =$$

$$100 \div 25 =$$

What measuring cup does Amma need to use?

“Oh, no! How do I measure 1.25 cups of flour?” Amma questions.

“You need to convert it to a fraction,” her friend whispers.