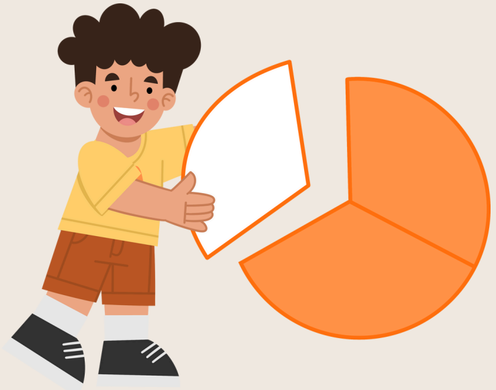
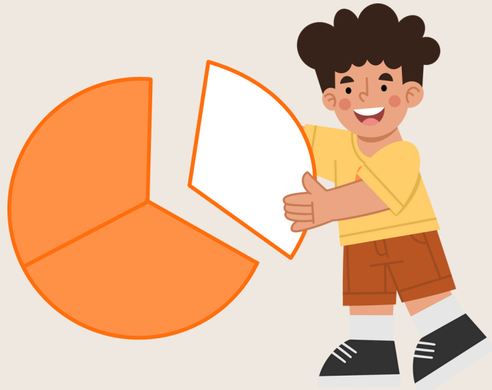
LEARNING

FRACTIONS





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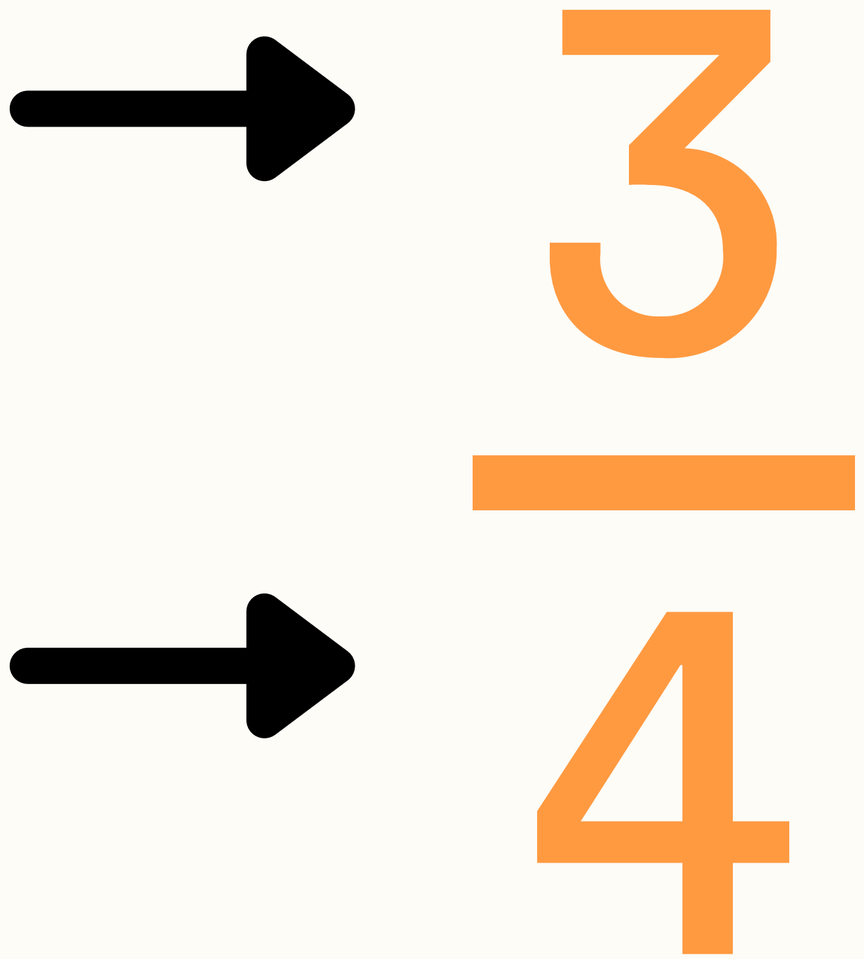
Numerator

The numerator shows how many parts you have.
This numerator shows there is three part.

Denominator

The denominator shows how many parts the whole is divided into.
This fraction shows it is divided into four parts.



Types of Fractions:

Proper Fraction – Top is smaller than bottom.

$\frac{2}{3}$ $\frac{3}{4}$ $\frac{1}{3}$

Improper Fraction – Top is bigger than or equal to bottom.

$\frac{5}{8}$ $\frac{8}{5}$ $\frac{5}{3}$

Mixed Number – A whole number and a fraction.

$1\frac{6}{6}$

Equivalent Fractions

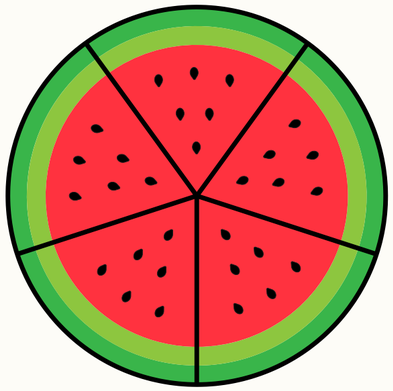
These are fractions that look different but are the same value.

What are equivalent fractions?

A boy and girl are beside a white board. On the left side of the white board the fraction 'one fifth' is next to an equals sign with the fraction two tenths on the right.
When two fractions have the same value, but have different denominators and numerators, they are called equivalent fractions.

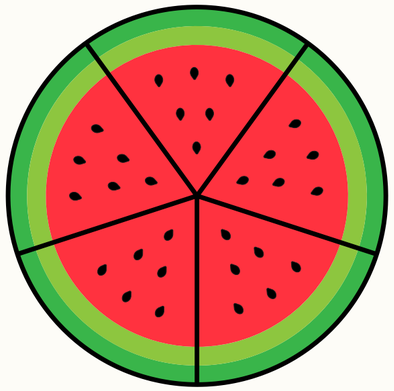
Equivalent means they are equal. They have the same value.

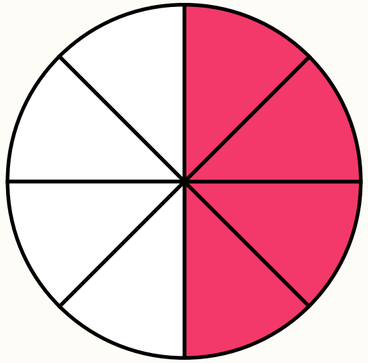
When two different fractions are equivalent, the numerator and the denominator can be:

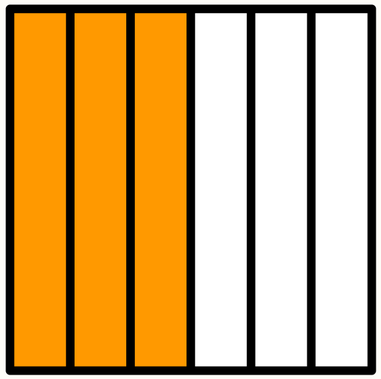


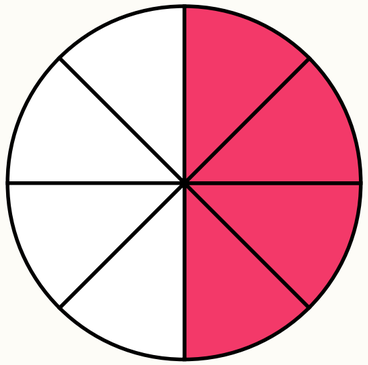
Multiplied by the same number

Divided by a common factor to simplify them



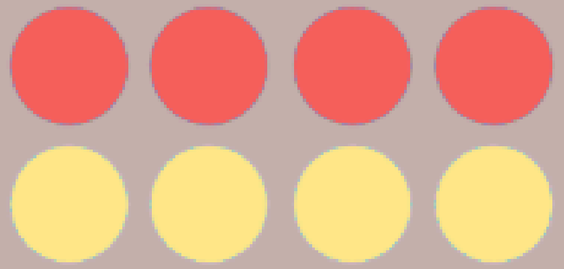




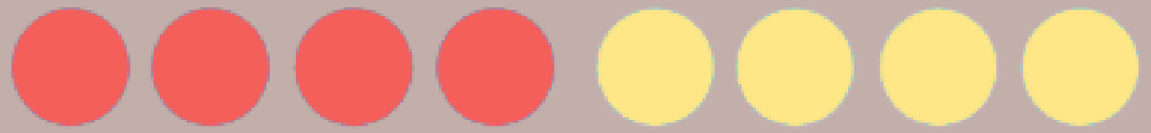


Begin with 8 counters. Different colours can be helpful to start with.

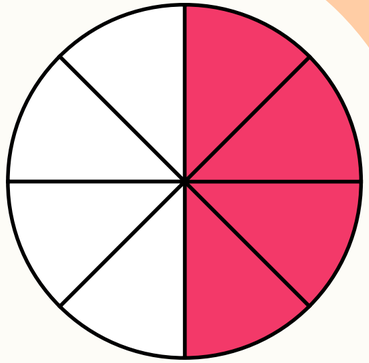
Halve the counters (divide them into 2 equal sized groups)

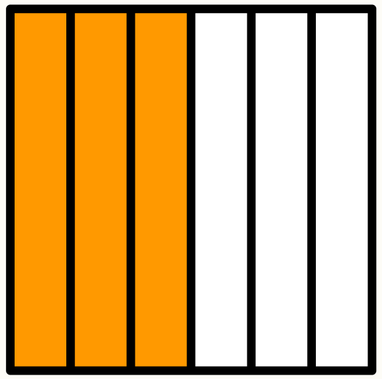


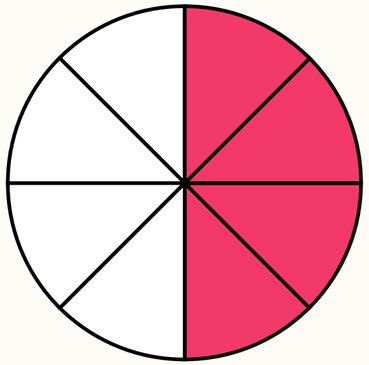
Now the group is split into halves, we can see that 1/2 = 4 counters.



$$\frac{1}{2} \text{ of } 8 = 4$$





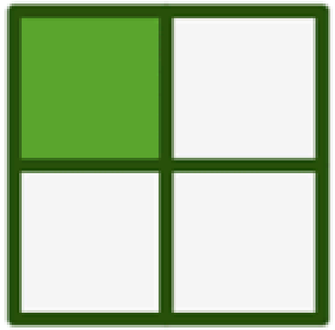


When working with fractions it is important to know how many equal parts the whole has been divided into.

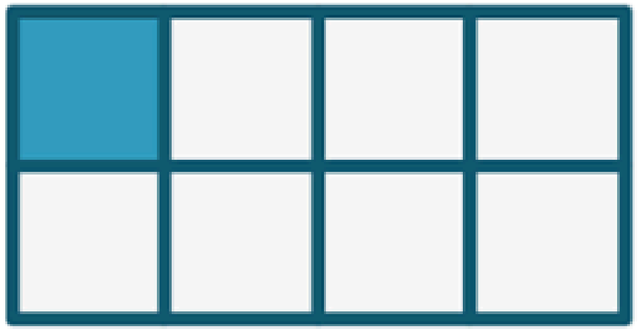
These shapes all have one part shaded.

$\frac{1}{2}$

$\frac{1}{3}$



$\frac{1}{4}$

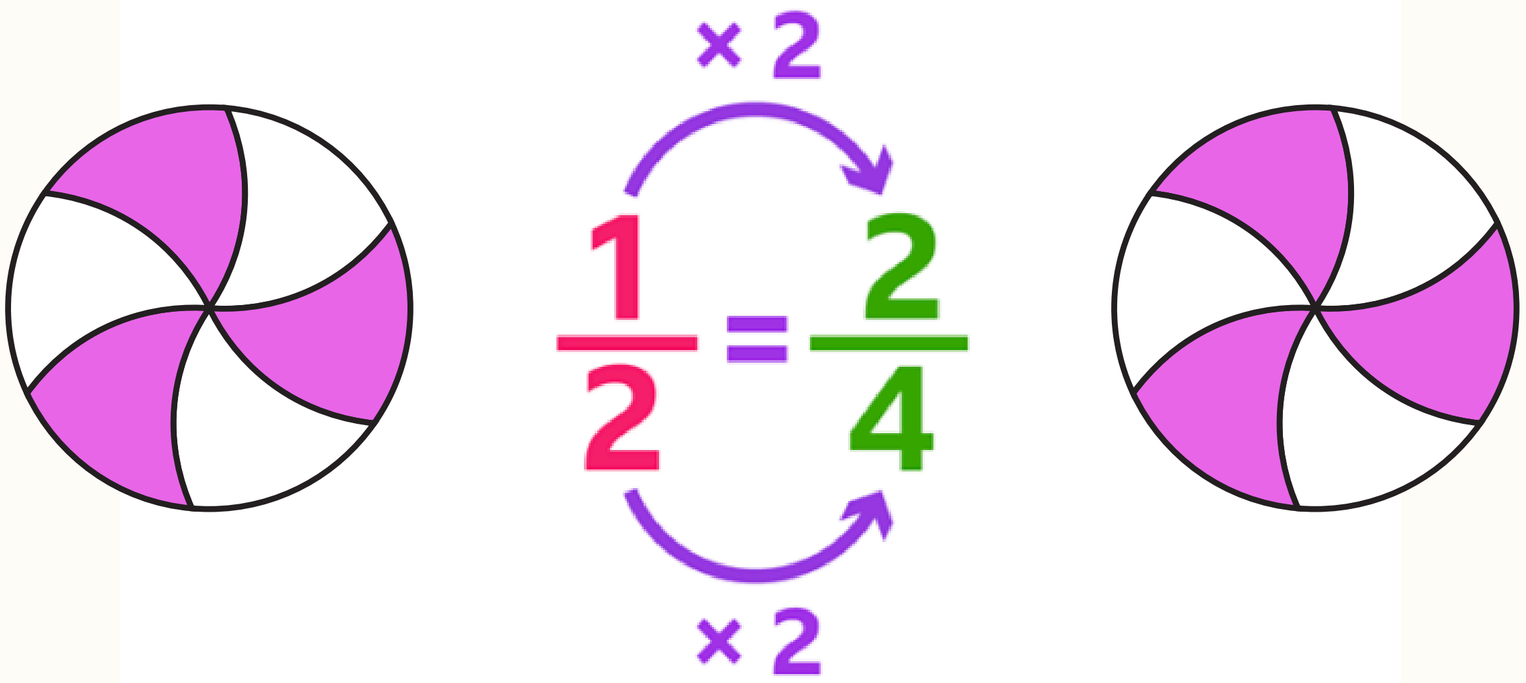


$\frac{1}{8}$

Using multiplication to find equivalent fractions

You can use multiplication to find equivalent fractions, by multiplying both the denominator and the numerator by a number.

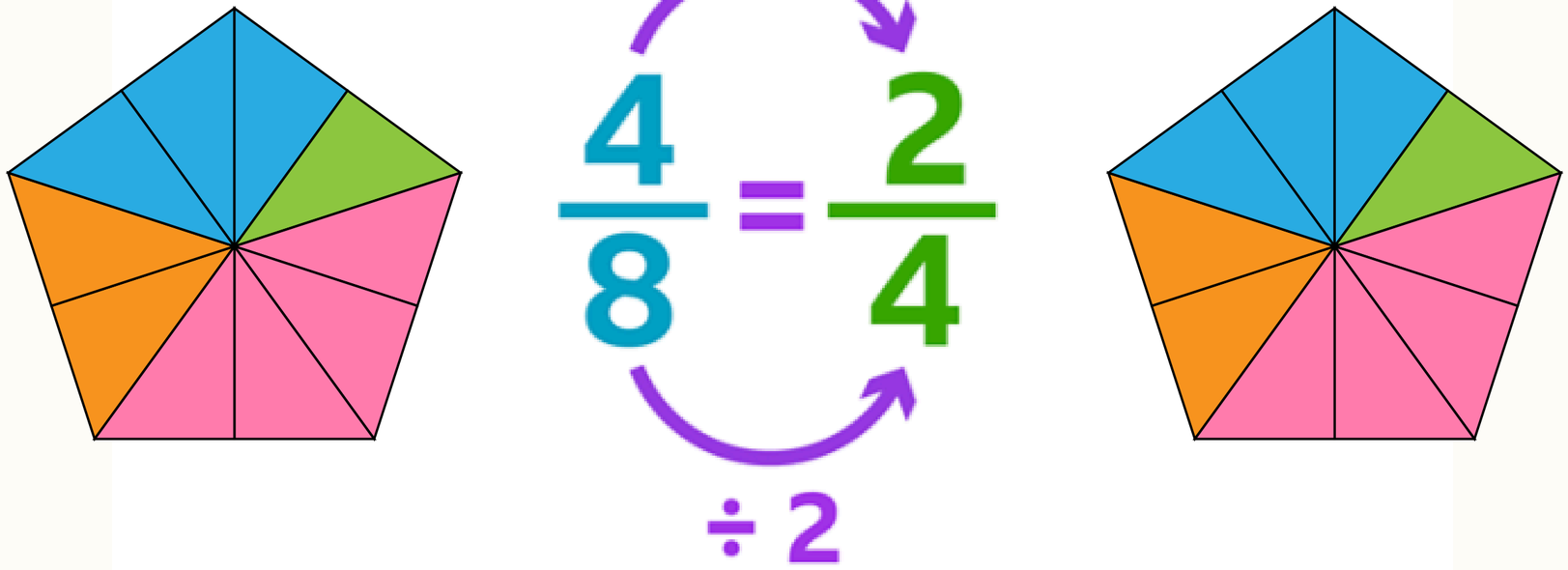
Here, $\frac{1}{2}$ has been multiplied by 2. The equivalent fraction is $\frac{2}{4}$.



Using division to find equivalent fractions

You can also find an equivalent fraction by dividing both the numerator and the denominator by a number.

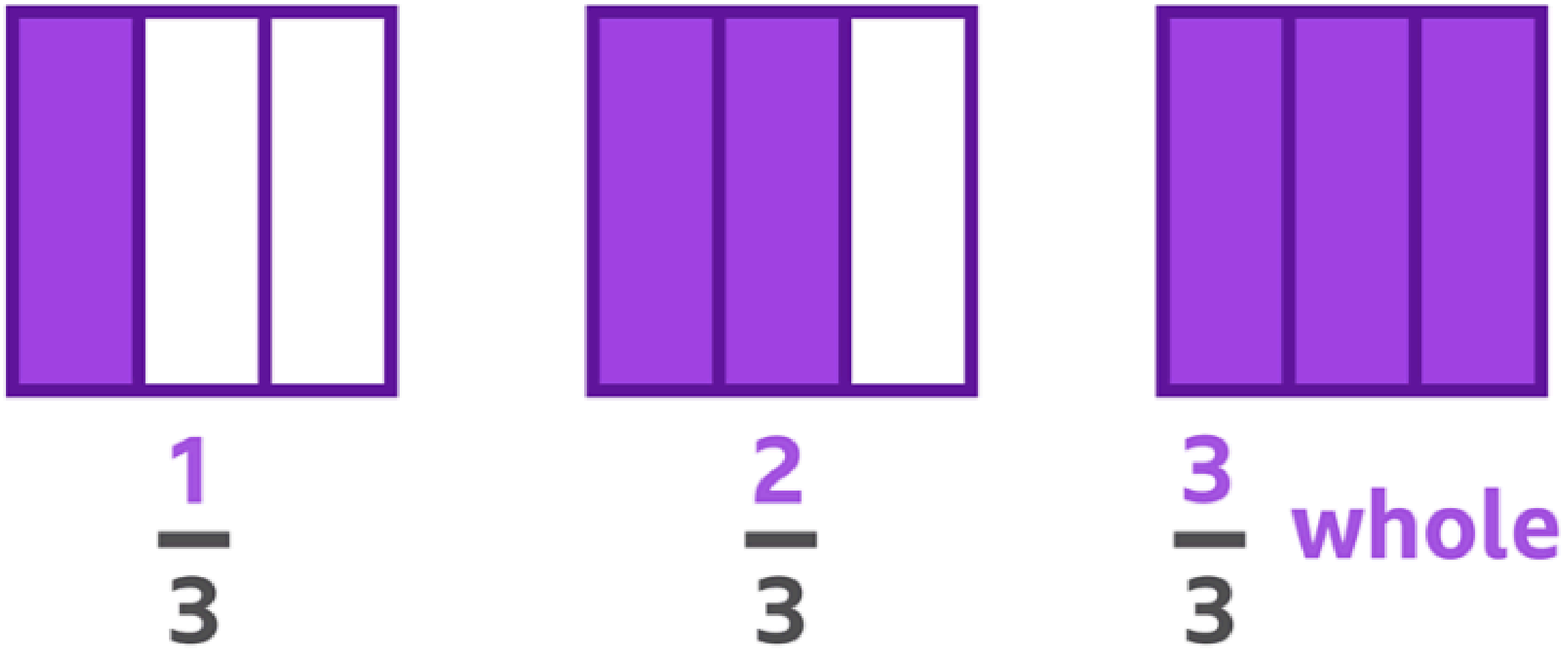
Here, the fraction $\frac{4}{8}$ has been divided by 2. The equivalent fraction is $\frac{2}{4}$.



Making a whole

A whole can be made up of any number of parts.

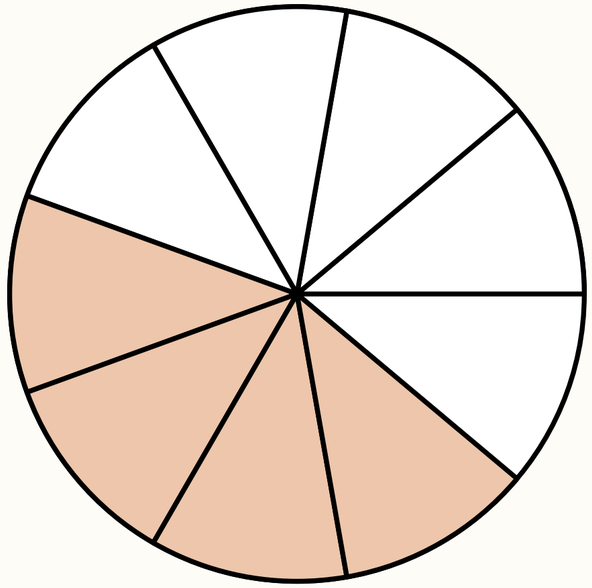
This square has been divided into 3 equal parts.



Each part is one-third of the whole.

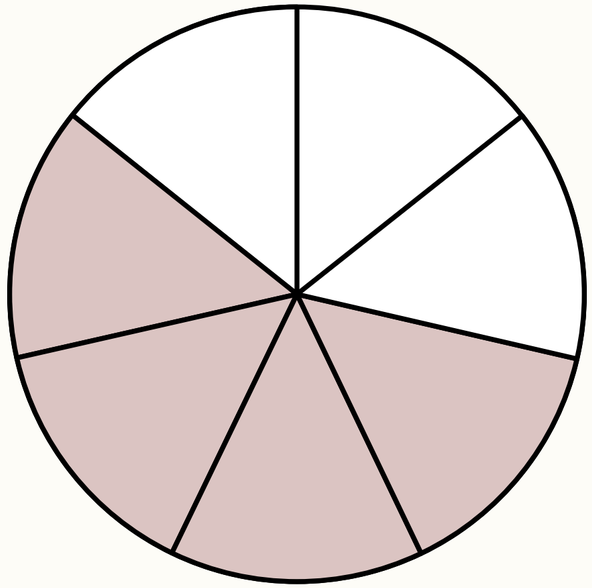
Together the 3 one-thirds are equal to the whole.

Circle the fraction that matches the picture:

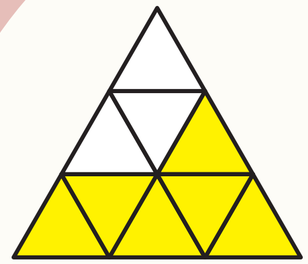
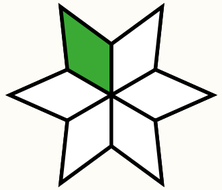
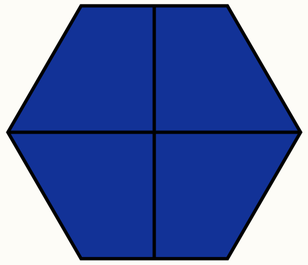
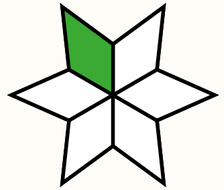
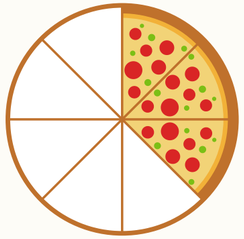


$\frac{4}{9}$ $\frac{5}{9}$ $\frac{6}{9}$

Circle the fraction that matches the picture:

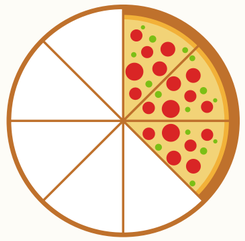


$\frac{5}{6}$ $\frac{3}{7}$ $\frac{4}{7}$

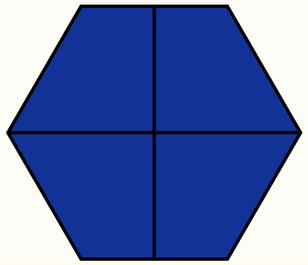






FRACTIONS IS FUN TO LEARN

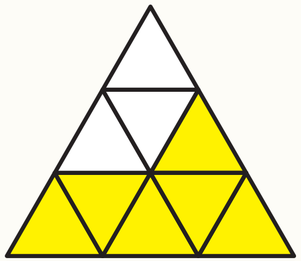




$\frac{1}{1}$



$\frac{1}{1}$



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