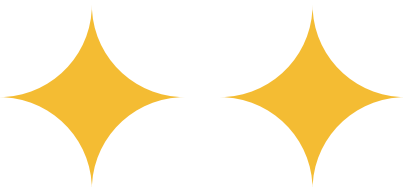
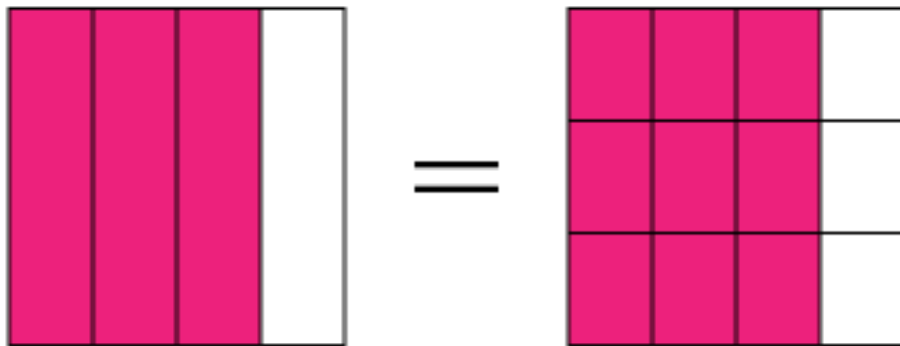




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Equivalent Fractions



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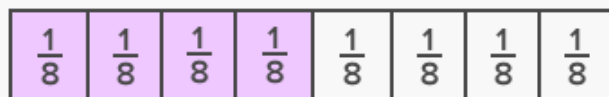
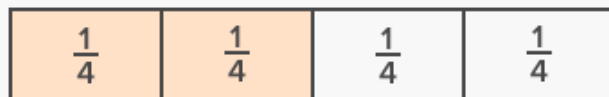
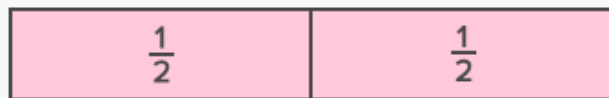
6

Introduction...

In math, **equivalent fractions can be defined as** fractions with different numerators and denominators that represent the same value or proportion of the whole.

For Example -

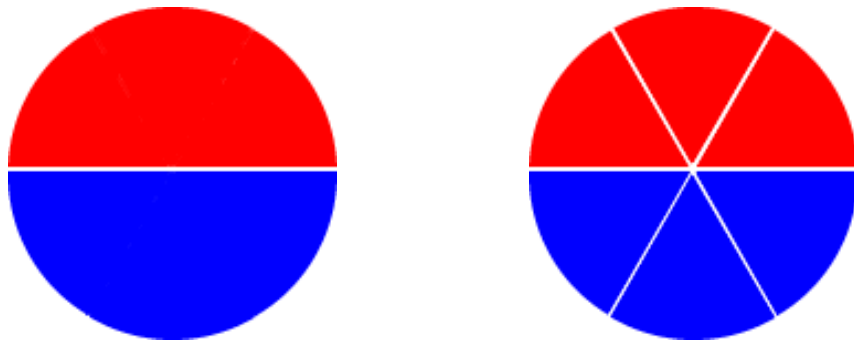
Can see how the value of $1/2$ is equal to the value of $2/4$ and $4/8$



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

Examples...

Look at these circles here -



The first one says that $\frac{1}{2}$ is red and the second one says that $\frac{3}{6}$ is red... But the same amount is red on both circles!

So, $\frac{1}{2}$ must be the same amount as $\frac{3}{6}$. $\frac{1}{2} = \frac{3}{6}$

These are called equivalent Fractions.

(Since they are equal amounts.)

Trick to Check...

Here's a quick trick to see if two fractions are equivalent:

Just do Cross-multiplication -

Let's just do one...Are these equivalent fractions?

$$\frac{3}{5} = \frac{39}{65}$$

Check by doing Cross-multiplication

~~$$\frac{3}{5} = \frac{39}{65}$$~~

$$3 \times 65 = 5 \times 39$$

$$195 = 195$$

Interesting Facts....



6

A denominator can never be zero!

Egyptians invented fractions as early as 1800 BC. They used fractions for holding the records of the land.

Equivalent fractions represent the same amount of distance or points on a number line.

All equivalent fractions reduce to the same fraction in their simplest form.



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