Ordering fractions

Which is bigger? (=, > or <)



We will give both fractions the same denominator - a common denominator.

When we do this, we are not changing the size of the fraction, we are finding an equivalent fraction.

In this example, the best way to give both fractions a common denominator is to change the thirds into sixths.

So we do the same to the numerator.



So we do the same to the numerator.



We multiplied the denominator by 2

Now we can order the fractions.

What if we can't find a common denominator by doubling?

$\frac{3}{8} - \frac{4}{10} = \frac{4}{40} - \frac{4}{40}$

To find a common denominator of 8 and 10

We find a multiple of 8 and 10.

Can you think of one?

So we do the same to the numerator.

Now we find our numerators.



We multiplied 8 by 5 to get 40.

Now find the other numerator.



We multiplied 10 by what to get 40?

So we multiply the other numerator by 4

Try these.

Change the numerator to find the larger fraction.



Change the numerator to find the larger fraction.



Change the numerator to find the larger fraction.



Change the numerator to find the larger fraction.



 $\frac{3}{6}$ is bigger.

5 1 8 2

Hint: change the half into eighths



Hint: change the half into quarters

Hint: change BOTH fractions into tenths

The next step is to make equivalent fractions by finding our own numerators and denominators.



Find a common denominator.

(A number that is a multiple of 4 and 6)

What could it be?



Now we are going to make equivalent fractions by multiplying the numerators by the same amount that we multiplied the denominators.



This will give us two fractions that have the same denominators but are the same size as the ones we started with.

So we multiply the numerator by 3.



This denominator has been multiplied by 3.

Now we find the numerator of the other fraction the same way.



The denominator was multiplied by what? X2



The denominator was multiplied by what?



Now we can compare the fractions.

















Which is larger?











Which is larger?





