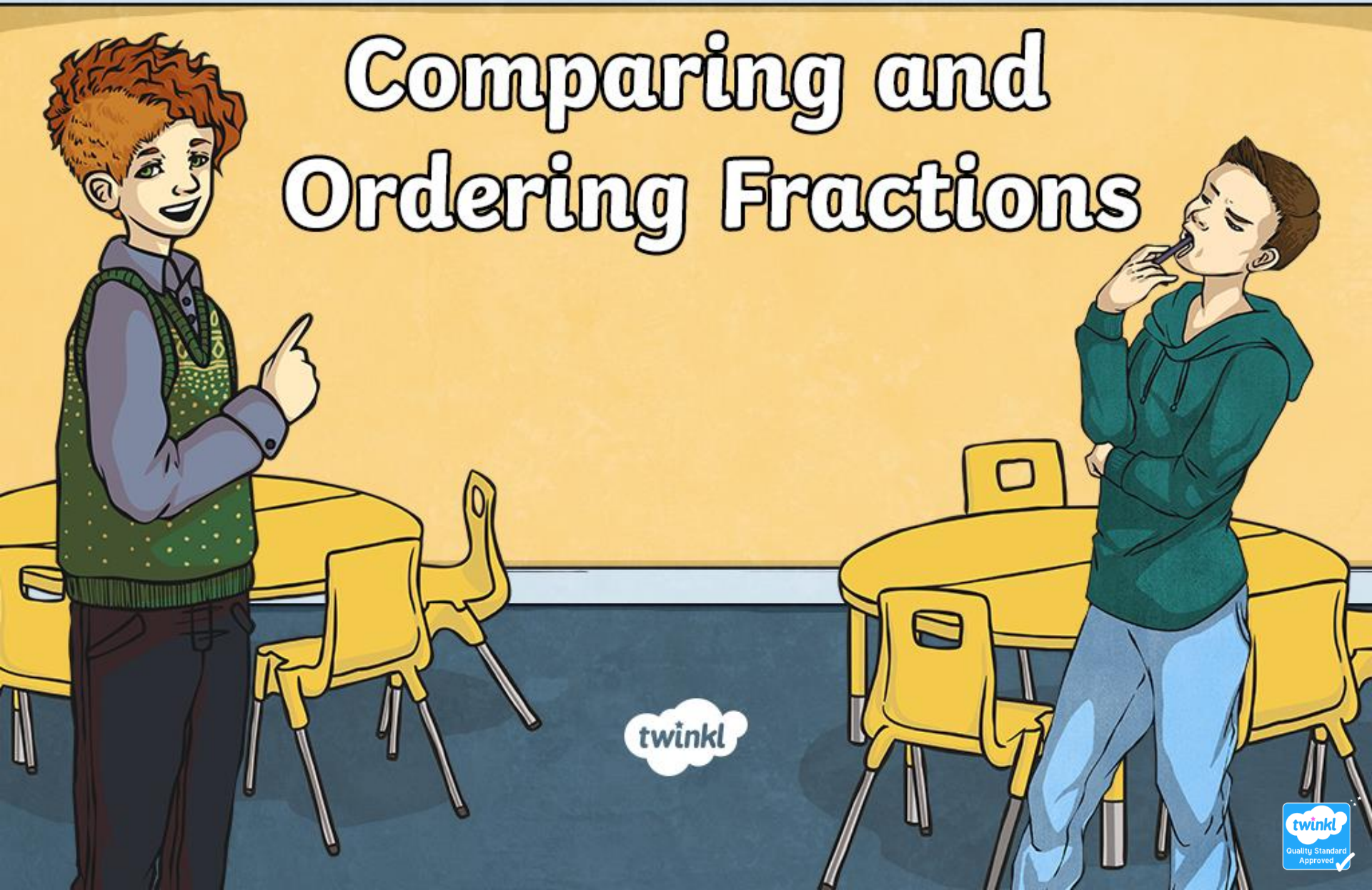
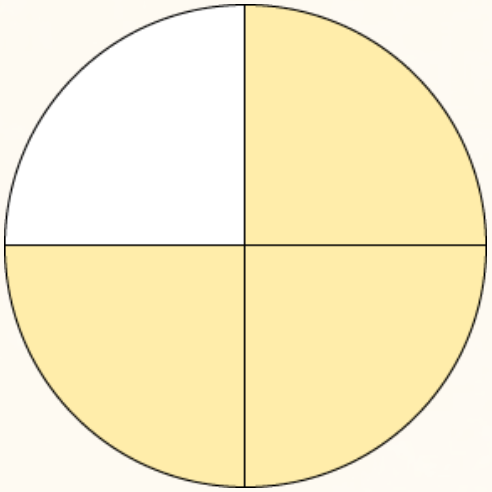
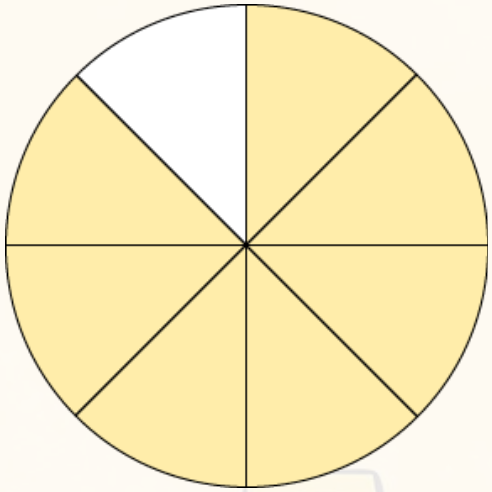

Comparing and
Ordering Fractions
twinkl
twinkl
Quality Standard
Approved

Comparing Fractions



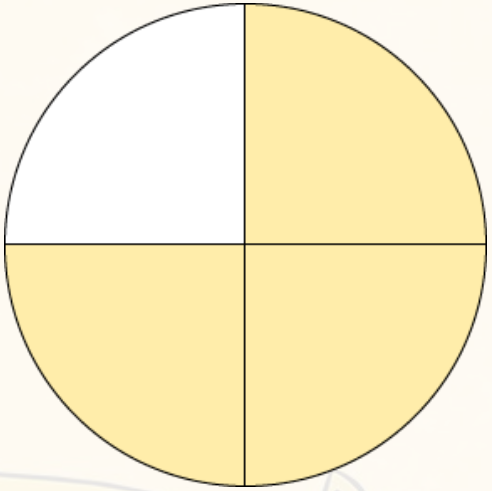
$\frac{3}{4}$

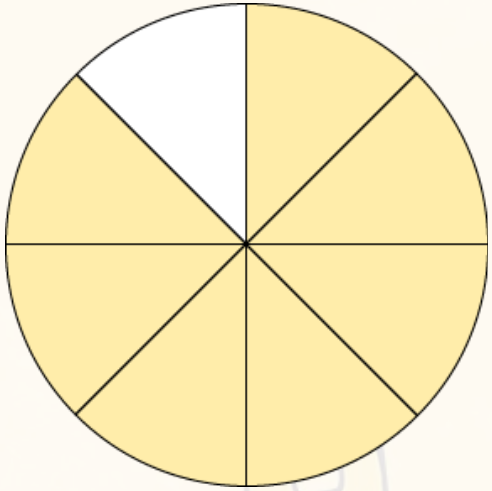


$\frac{7}{8}$

Both of these circles have been split into multiples of 4 therefore we can compare them.

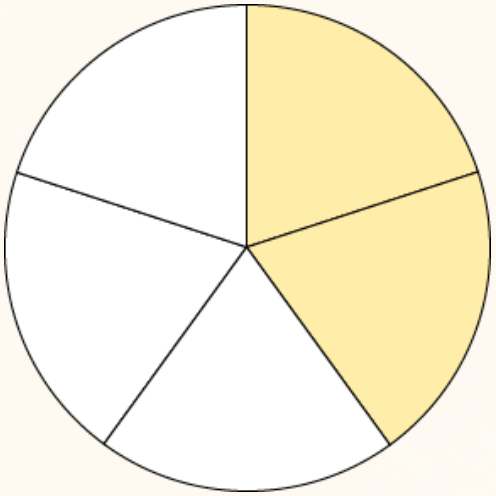
Comparing Fractions



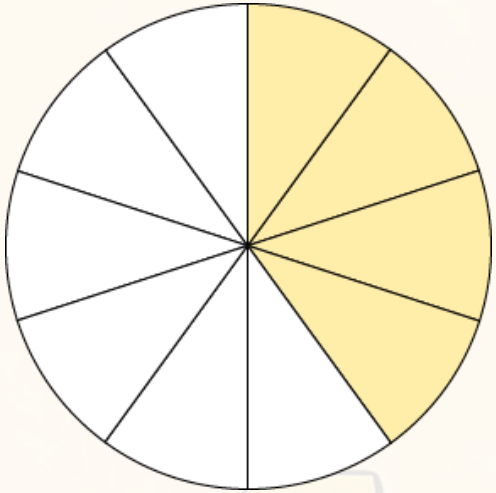


$\frac{3}{4}$ < $\frac{7}{8}$

Comparing Fractions



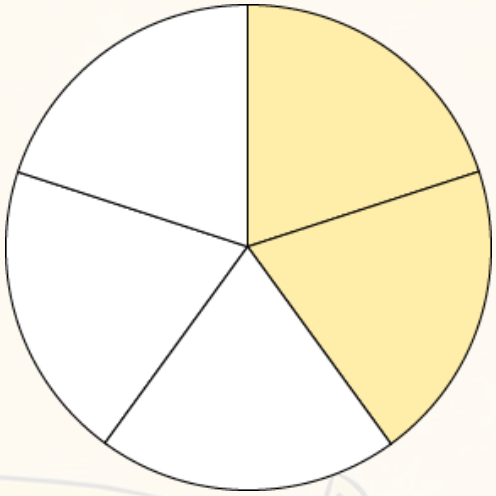
$\frac{2}{5}$

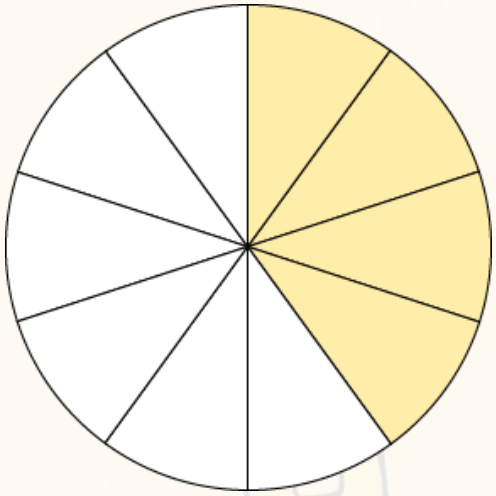


$\frac{4}{10}$

Both of these circles have been split into a multiple of 5 therefore we can compare them.

Comparing Fractions

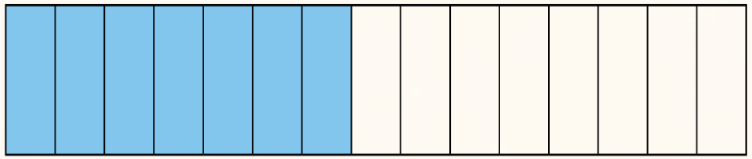




$\frac{2}{5}$ $\boxed{=}$ $\frac{4}{10}$

Comparing Fractions

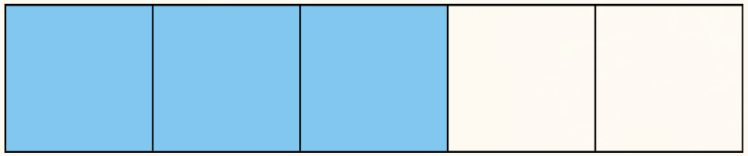
$\frac{3}{5}$

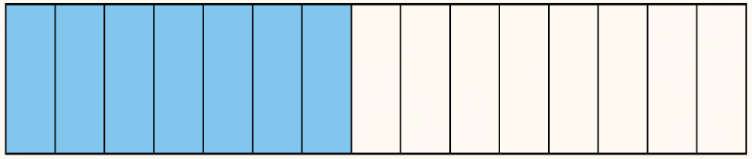


$\frac{7}{15}$

5 and 15 are both multiples of 5 therefore we can compare them.

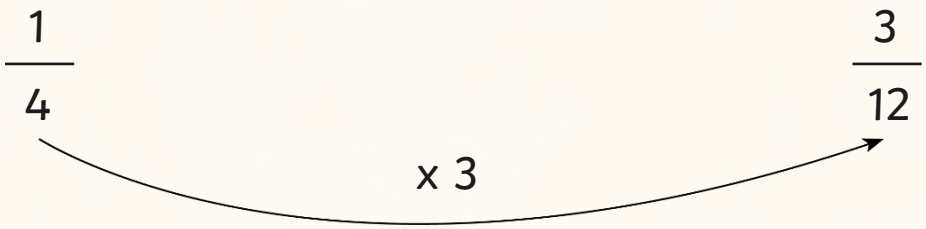
Comparing Fractions





$\frac{3}{5}$ > $\frac{7}{15}$

Comparing Fractions



To compare these two fractions, you must look at what has changed in the denominator, *e.g.* **4 x 3 = 12**

Therefore, if the numerator has changed in the same way, the fractions would be equal, *e.g.* **1 x 3 = 3**

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

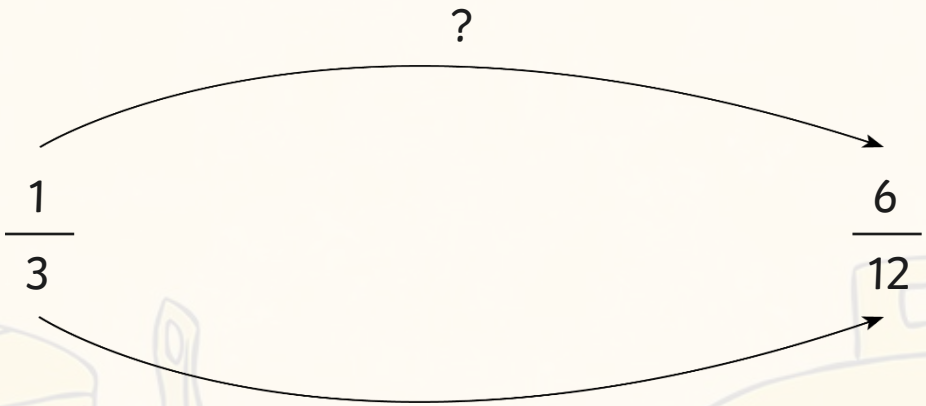
Remember the Rule: Whatever you do to the denominator, you must do the same to the numerator.

Comparing Fractions

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

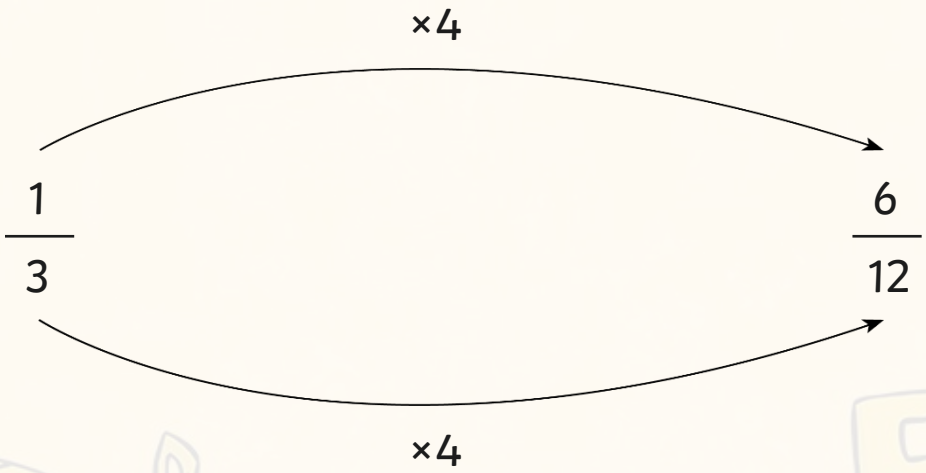
Comparing Fractions

Can you compare these two fractions by looking at what has changed in the denominator and seeing if it is the same in the numerator?



Remember the Rule: Whatever you do to the denominator, you must do the same to the numerator.

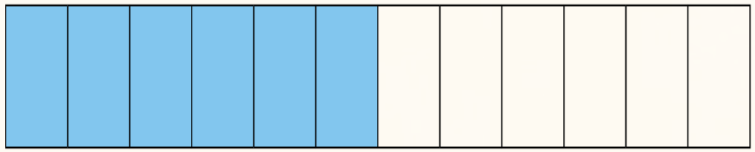
Comparing Fractions



$3 \times 4 = 12$

But 1 x 4 = 4, **not** 6 so these fractions are **not** equal.
Which fraction is larger?

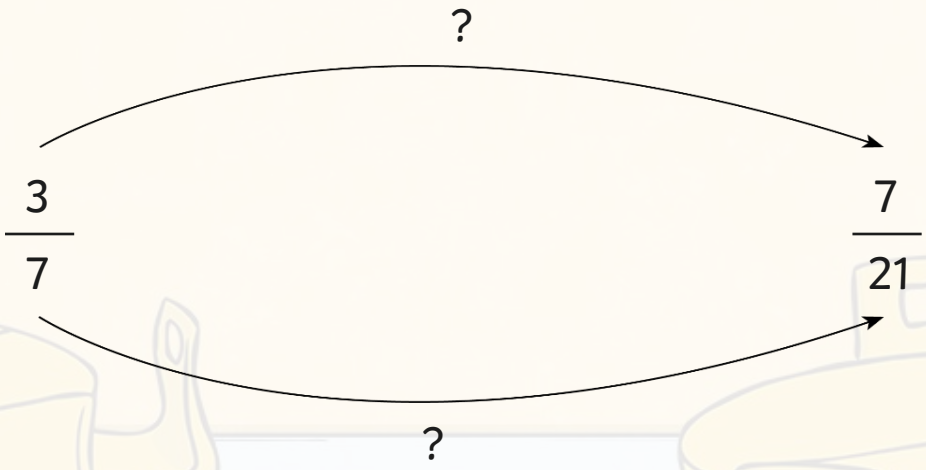
Comparing Fractions



$\frac{1}{3}$ $<$ $\frac{6}{12}$

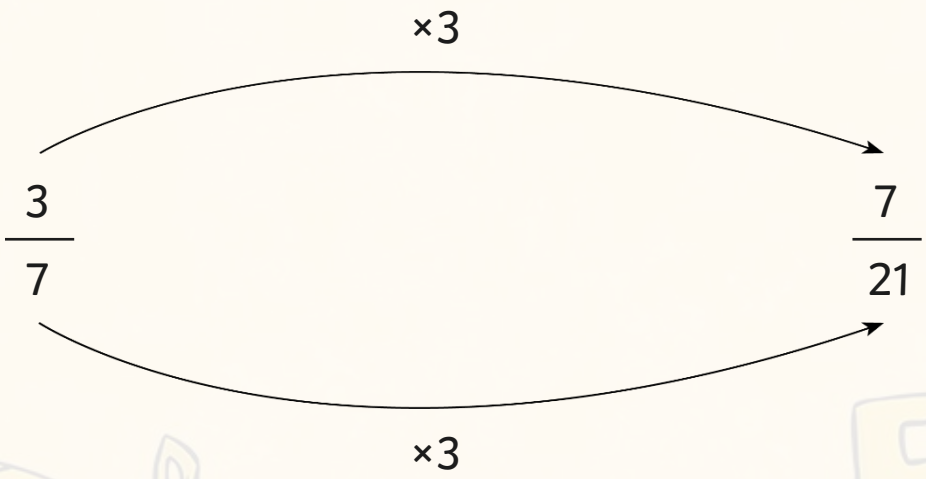
Comparing Fractions

Can you compare these two fractions by looking at what has changed in the denominator?



Remember the Rule: Whatever you do to the denominator, you must do the same to the numerator.

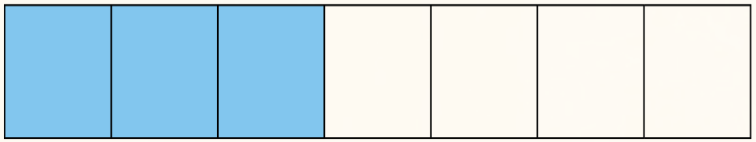
Comparing Fractions

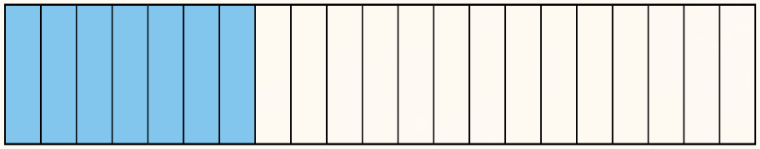


$7 \times 3 = 21$

But 3 x 3 = 9, **not** 7 so these fractions are **not** equal.
Which fraction is larger?

Comparing Fractions





$\frac{3}{7}$ $\boxed{>}$ $\frac{7}{21}$

Comparing Fractions

Have a go at comparing these fractions:

$\frac{2}{5}$	<	$\frac{5}{10}$
$\frac{2}{3}$	=	$\frac{4}{6}$
$\frac{4}{5}$	>	$\frac{12}{20}$
$\frac{3}{4}$	=	$\frac{12}{16}$

Ordering Fractions

The denominator in each of these fractions is a multiple of 4 therefore, we can compare **and** order them.

$\frac{4}{8}$ $\frac{1}{4}$ $\frac{3}{4}$ $\frac{5}{8}$

First, change all of the fractions so that they have the same denominator.

$\frac{4}{8}$ $\frac{2}{8}$ $\frac{6}{8}$ $\frac{5}{8}$

Then write them in order from **smallest** to **largest**. Remember to write them in their original form.

$\frac{1}{4}$ $\frac{4}{8}$ $\frac{5}{8}$ $\frac{3}{4}$

Ordering Fractions

Can you order the following fractions from **smallest** to **largest**? Start by changing each of the fractions so that the denominator is 20.

$\frac{2}{5}$ $\frac{2}{10}$ $\frac{9}{10}$ $\frac{3}{5}$ $\frac{3}{10}$

$\frac{8}{20}$ $\frac{4}{20}$ $\frac{18}{20}$ $\frac{12}{20}$ $\frac{6}{20}$

Now put them in order! Remember to write them in their original form!

$\frac{2}{10}$ $\frac{3}{10}$ $\frac{2}{5}$ $\frac{3}{5}$ $\frac{9}{10}$

Ordering Fractions

Order these fractions from **smallest** to **largest**? Decide on what denominator to change each fraction to.

$\frac{1}{2}$ $\frac{3}{8}$ $\frac{3}{4}$ $\frac{7}{8}$ $\frac{2}{8}$

$\frac{4}{8}$ $\frac{3}{8}$ $\frac{6}{8}$ $\frac{7}{8}$ $\frac{2}{8}$

Now put them in order! Remember to write them in their original form!

$\frac{2}{8}$ $\frac{3}{8}$ $\frac{1}{2}$ $\frac{3}{4}$ $\frac{7}{8}$