Fractions – comparing and ordering fractions

Comparing and ordering fractions with like numerators and denominators is a simple process:

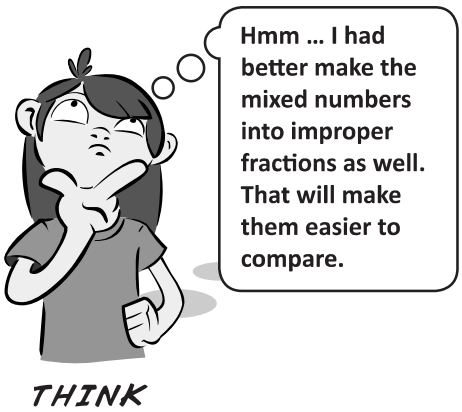
When the denominators are different, we need to change the fractions so they have the same denominator. This lets us compare like with like.

Which is larger? $\frac{3}{4}$ or $\frac{5}{8}$

To convert quarters to eighths we double the denominator and numerator, so $\frac{3}{4}$ becomes $\frac{6}{8}$.
$\frac{6}{8}$ is larger than $\frac{5}{8}$, so $\frac{3}{4}$ is larger then $\frac{5}{8}$.

1 **Order these fractions:**

$1\frac{1}{2}$ $\frac{5}{4}$ $\frac{3}{4}$ $\frac{2}{4}$ $1\frac{3}{4}$ $\frac{1}{4}$ $\frac{4}{4}$



2 **Rename a fraction in each group so that you can compare them more easily. Circle the larger fraction:**

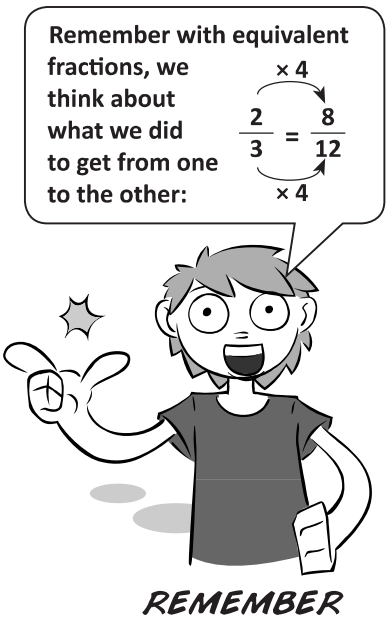
a $\frac{1}{2}$ $\frac{2}{8}$

b $\frac{4}{8}$ $\frac{3}{4}$

c $\frac{2}{6}$ $\frac{1}{2}$

d $\frac{10}{12}$ $\frac{3}{4}$

3 **Write or draw a fraction on the left that would result in the scale looking like this:**



4 **Find a partner to play this game with:**

Name a fraction between 0 and 1 and place it on the number line. Your partner then has to name and place a fraction that fits between that fraction and 1. Then you have to find one that fits between their fraction and 1 and so on. The game continues until one player cannot think of a fraction, or can't fit one in.

You can challenge a fraction placement. If you are right, your partner has to remove their fraction. If you are wrong, they get to do the 'told you so' dance.

5 **These fractions are all out of order. Cut them out and put them in order from smallest to largest. Place any equivalent fractions on top of each other. There is a space for you to rename the fractions on each of the cards if this will help. Share your thinking with a partner.**

Have they ordered them the same way?

$\frac{1}{2} = \frac{\square}{16}$	$\frac{6}{8} = \frac{\square}{16}$	$\frac{1}{4} = \frac{\square}{16}$	$\frac{12}{16} = \frac{\square}{16}$	$\frac{13}{16} = \frac{\square}{16}$	$\frac{15}{16} = \frac{\square}{16}$
$\frac{10}{8} = \frac{\square}{16}$	$\frac{5}{8} = \frac{\square}{16}$	$\frac{10}{16} = \frac{\square}{16}$	$\frac{7}{8} = \frac{\square}{16}$	$\frac{2}{8} = \frac{\square}{16}$	$\frac{5}{16} = \frac{\square}{16}$