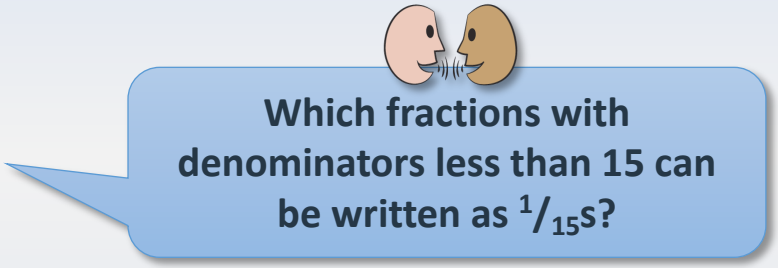
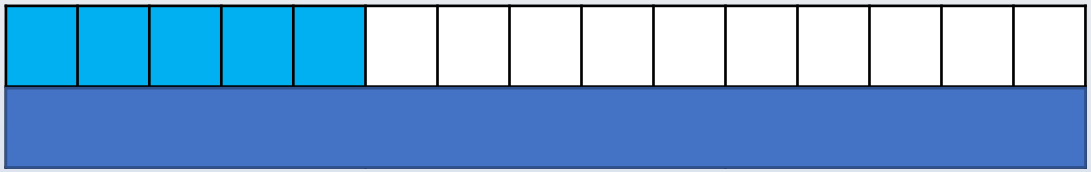
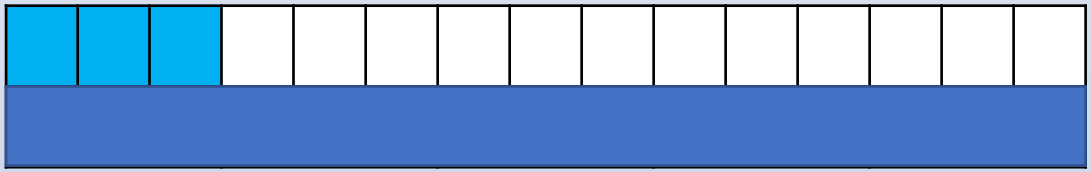
Compare fractions with different denominators using equivalence.





$^1/_3 = {}^5/_{15}$



$^1/_5 = {}^3/_{15}$

$^5/_{15} > {}^3/_{15}$

So, $^1/_3 > {}^1/_5$

Compare fractions with different denominators using equivalence.

But what if we don't have a fraction wall to help us compare fractions visually?

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

We can write these as the same 'sort' of fractions, i.e. fractions with a common denominator, in this case $\frac{1}{15}$s, to compare them.

Have a go at writing both $\frac{2}{3}$ and $\frac{3}{5}$ as $\frac{1}{15}$s, then write > or < to compare them.

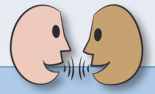
$\frac{10}{15} > \frac{9}{15}$

So, $\frac{2}{3} > \frac{3}{5}$

$\frac{2}{3} = \frac{10}{15}$ (multiply both numerator *and* denominator by 5)

$\frac{3}{5} = \frac{9}{15}$ (multiply both numerator *and* denominator by 3)

Compare fractions with different denominators using equivalence.



List which fractions with denominators less than 20 can be written as $^1/_{20}$s.

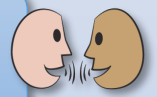
$^1/_2$s $^1/_4$s $^1/_5$s $^1/_{10}$s

Now use equivalence with $^1/_{10}$s to compare $^1/_2$ and $^3/_5$, and equivalence with $^1/_{20}$s to compare $^7/_{10}$ and $^3/_4$.

$^5/_{10} < {}^6/_{10}$, so $^1/_2 < {}^3/_5$

$^{14}/_{20} < {}^{15}/_{20}$, so $^7/_{10} < {}^3/_4$

How can we compare $^7/_5$ and $^5/_4$?



Write the fractions as mixed numbers first, and then the fractional parts of each as $^1/_{20}$s.