## Compare and order fractions

If the denominators of our fractions are the same, they are easy to compare.


## Add and subtract fractions

If the denominators of our fractions are the same, we just add the numerators.

$$
\begin{aligned}
& \frac{3}{5}+\frac{1}{5}=\frac{4}{5} \\
& +{ }^{\theta}=
\end{aligned}
$$

$\frac{5}{6}-\frac{1}{4}=$
$\frac{10}{12}-\frac{3}{12}=\frac{7}{12}$

## Equivalent fractions

As long as we multiply or divide the numerator and denominator by the same number, our fraction will be equivalent.

$$
\frac{1}{3} \square=\boxminus \frac{2}{6}
$$

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## Dividing fractions

Dividing can be thought of as grouping (if numerator divisible by integer) or splitting.

## Improper and mixed numbers

Fractions which are bigger than 1.


## Multiplying fractions

If multiplying by an integer, think of it as repeated addition.

$$
\begin{array}{r}
\frac{3}{5} \times 3=\frac{3}{5}+\frac{3}{5}+\frac{3}{5}=\frac{9}{5}=1 \frac{4}{5} \\
+
\end{array}+\square=\square=\square
$$

If multiplying fractions together, you multiply the numerators together and multiply the denominators together.

$$
\begin{gathered}
\frac{2}{3} \times \frac{3}{4}=\frac{2 \times 3}{3 \times 4}=\frac{6}{12}=\frac{1}{2} \\
\times \square=\square=\square
\end{gathered}
$$

## Find fractions of amounts <br> When finding fractions of amounts, remember the denominator is how many equal parts something has been split into and the numerator is how many parts you have



Extra note: multiplication will result in the exact $\downarrow$ same thing!! $\frac{5}{8} \times 56=\frac{5 \times 56}{8}=\frac{280}{8}=35$

