Year 3 **Fractions**

Key Vocabulary
half
quarter
whole
equal parts
three quarters
third
tenth
equal parts
equivalent fractions
unit fraction
non-unit fraction
numerator
denominator

Numerator and Denominator

$\frac{2}{3}$

Numerator
The amount of equal parts of a whole that we have.

Denominator
The amount of equal parts the whole is split in to.

Equivalent Fractions

Equivalent fractions have the same value as each other.

The fractions below are all equivalent to $\frac{1}{2}$ because the numerator is half the denominator.

$\frac{1}{2}$ is equal to...

$\frac{1}{2} = \frac{2}{4} = \frac{3}{6} = \frac{4}{8} = \frac{5}{10} = \frac{6}{12}$

$\frac{1}{4}$ is equal to..

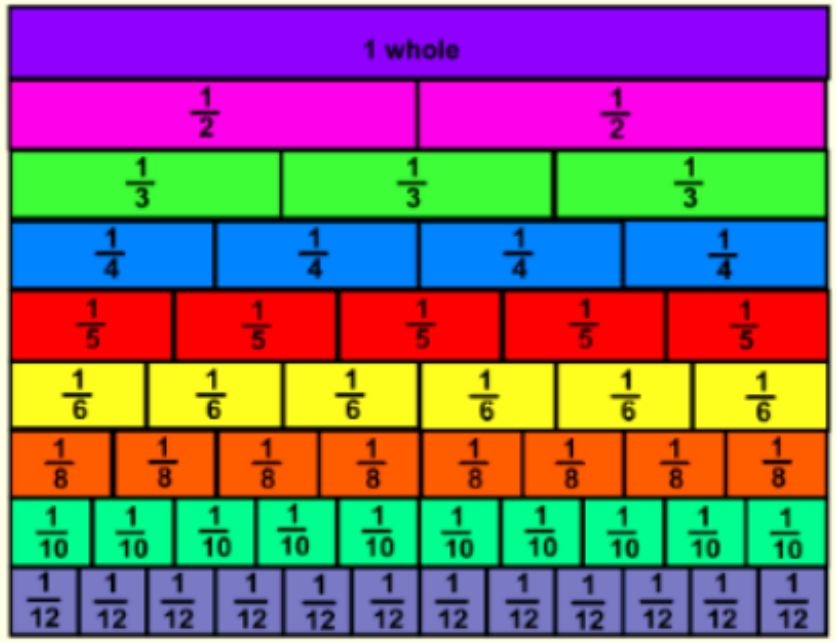
$\frac{1}{4} = \frac{2}{8} = \frac{3}{12} = \frac{4}{16} = \frac{5}{20}$

Comparing Fractions

$\frac{1}{4} < \frac{3}{4}$

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

When the denominators are the same, the numerator tells you which fraction is bigger.



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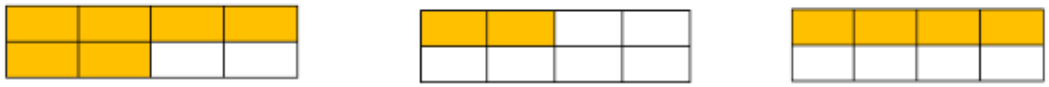
Adding and Subtracting Fractions

$\frac{6}{8} - \frac{2}{8} = \frac{4}{8}$



$\frac{4}{7} + \frac{1}{7} = \frac{5}{7}$

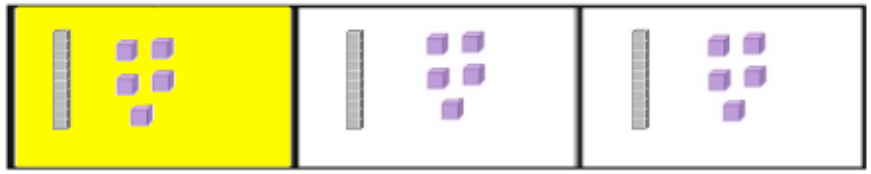
Counting in Tenths

0 $\frac{1}{10}$ $\frac{2}{10}$ $\frac{3}{10}$ $\frac{4}{10}$ $\frac{5}{10}$ $\frac{6}{10}$ $\frac{7}{10}$ $\frac{8}{10}$ $\frac{9}{10}$ 1

Fractions of Amounts

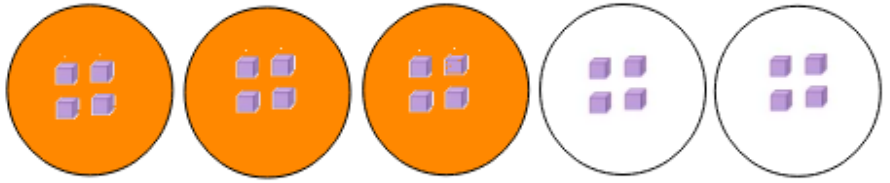
$\frac{1}{3}$ of 45 = 15

To work this out we need to divide 45 into 3 equal parts and then count 1 of them.



$\frac{3}{5}$ of 20 = 12

To work this out we need to divide 20 into 5 equal parts and then count 3 of them.



To find fractions of amounts we **divide by the denominator** and then **multiply by the numerator**.