



Knowledge Organiser

Number



Year 3

Fractions

Fractions are important because they are used in lots of real-life situations. We use them when telling the time, cooking or sharing things between friends. Knowing our multiplication and division facts will also help us when developing our understanding of fractions.

Builds from Year 2:

Recognise, find and write simple fractions.

Recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$

This year:

Find unit and non-unit fractions of amounts.

Equivalent fractions.

Add and subtract fractions within one whole.

Count in tenths $\frac{1}{10}$

Compare and order fractions.

Leads to Year 4:

Add and subtract fractions.

Understand hundredths $\frac{1}{100}$

Write tenths and hundredths as equivalent decimals.

Numerator & Denominator



$\frac{3}{8}$

Numerator

How many equal parts of the whole are needed?

Denominator

How many equal parts are in the whole?

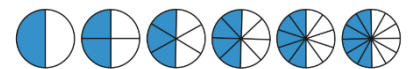
Equivalent Fractions

Equivalent fractions are fractions that have different numerators and denominators but are equal to the **same value**.



is equal to

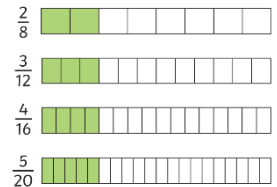
$$\frac{1}{2} = \frac{2}{4} = \frac{3}{6} = \frac{4}{8} = \frac{5}{10} = \frac{6}{12}$$



$\frac{1}{4}$

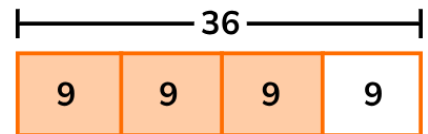


is equal to

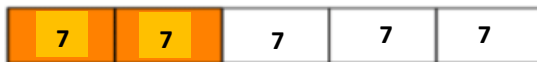


Fractions of Amounts

$$\frac{1}{3} \text{ of } 18 = 6$$



$$\frac{2}{5} \text{ of } 35 = 14$$



$$\frac{3}{4} \text{ of } 36 = 27$$

Adding & Subtracting Fractions

$$\frac{2}{5} + \frac{1}{5} = \frac{3}{5}$$



$$\frac{5}{6} - \frac{2}{6} = \frac{3}{6}$$

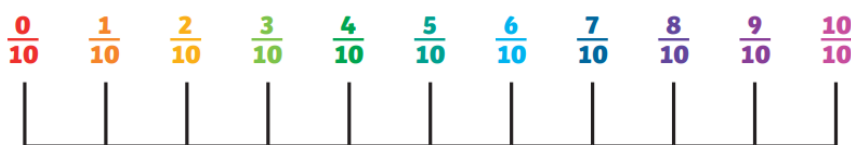


Comparing Fractions

$$\frac{1}{3} < \frac{2}{3}$$

$$\frac{4}{5} > \frac{3}{5}$$

Tenths



Key Vocabulary

numerator denominator unit fraction non-unit fraction halves thirds quarters fifths sixths eighths
tenths equivalent