

Calculate fractions of amounts.

Unit fractions always have a numerator of 1,
e.g. $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{10}$.

Remember we can find **unit fractions** of a number by dividing by the **denominator** (bottom number) of the fraction.

To find $\frac{1}{4}$ of 80 divide 80 by 4.
 $\frac{1}{4}$ of 80 = 20

Calculate fractions of amounts.

Find $\frac{2}{5}$ of 30

Non-unit fractions always have a **numerator** (top number) of more than 1, e.g.

$$\frac{3}{4}, \frac{2}{5}, \frac{7}{10}.$$

Remember we can find **non-unit fractions** of a number by dividing by the denominator, then multiplying by the numerator of the fraction.

To find $\frac{2}{5}$ of 30 divide 30 by 5 then multiply by 2.
 $\frac{1}{5}$ of 30 = 6, $\frac{2}{5}$ of 30 = 12.

Use equivalent fractions to find percentages.

Hamilton Primary school has a £500 grant to spend to improve the outside space. All 200 children were asked to vote for what they would like.
50% voted for a wildlife pond,
25% voted for a climbing frame,
25% voted for friendship benches.

We can use **equivalent fractions** to help find **percentages**!

How can we find
50% of 200?

50% is
equivalent to
 $\frac{1}{2}$, so we can
find $\frac{1}{2}$ of 200.

100 children voted for
a wildlife pond.

How can we find
25% of 200?

25% is equivalent
to $\frac{1}{4}$, so we can
find $\frac{1}{4}$ of 200 by
dividing by 4.

50 children voted for a climbing frame
and 50 for friendship benches.

Use equivalent fractions to find percentages.

Moreton Primary also has £500 grant. They have 150 children.
10% voted for the friendship benches,
20% for a climbing frame,
70% for a wildlife pond.

How can we find
10% of 150?

10% is equivalent
to $\frac{1}{10}$, so we can
find $\frac{1}{10}$ of 150.

$\frac{1}{10}$ of 150 = $150 \div 10 = 15$.
15 children voted for
friendship benches.

To find 20%, double the answer for 10%.
Double 15 = 30.
30 children voted for a climbing frame.

To find 70%, multiply the answer for 10% by 7.
 $15 \times 7 = 105$.
105 children voted for a wildlife pond.