

As outcomes, Year 5 pupils should, for example:

- Relate fractions to division. For example:
- understand that finding one third is equivalent to dividing by 3, so $\frac{1}{3}$ of 15 is equivalent to $15 \div 3$;
 - when 3 whole cakes are divided equally into 4, each person gets three quarters, or $3 \div 4 = \frac{3}{4}$;
 - recognise that $1\frac{2}{3}$ is another way of writing $12 \div 3$.

See also remainders (page 57).

Find fractions of numbers and quantities.
For example, answer questions such as:

- What is one tenth of: 80, 240, 1000...?
What is one hundredth of: 100, 800, 1000...?
- What is $\frac{3}{10}$ of: 50, 20, 100...?
What is $\frac{3}{4}$ of: 16, 40, 100...?
- Write $\frac{23}{100}$ of £1 in pence.
Write $\frac{7}{10}$ of 1 metre in centimetres.
- What fraction of £1 is 33p? 30p?
What fraction of 1 metre is 27 cm? 20 cm?
- What fraction of 1 km is 250 m? 200 m?
What fraction of 1 kg is 500 g? 300 g?
What fraction of 1 litre is 750 ml? 700 ml?
What fraction of 1 day is 1 hour, 8 hours, 12 hours?
- I work for 8 hours and sleep for 10 hours.
What fraction of the day do I work?
What fraction of the day do I sleep?
- What fraction of the smaller shape is the larger?



As outcomes, Year 6 pupils should, for example:

- Relate fractions to division. For example:
- understand that finding one tenth is equivalent to dividing by 10, so $\frac{1}{10}$ of 95 is equivalent to $95 \div 10$;
 - when 9 whole cakes are divided equally into 4, each person gets nine quarters, or $9 \div 4 = 2\frac{1}{4}$;
 - recognise that $60 \div 8$ is another way of writing 60% , which is the same as $7\frac{4}{8}$.

Answer questions such as:

- How many halves in: $1\frac{1}{2}$, $3\frac{1}{2}$, $9\frac{1}{2}$...?
- How many quarters in: $1\frac{1}{4}$, $2\frac{3}{4}$, $5\frac{1}{2}$...?
- How many thirds in: $1\frac{1}{3}$, $3\frac{2}{3}$, $7\frac{1}{3}$...?

See also remainders (page 57).

Find fractions of numbers and quantities.
For example, answer questions such as:

- What is three tenths of: 80, 10, 100...?
What is seven tenths of: 50, 20, 200...?
What is nine hundredths of: 100, 400, 1000...?
- What is $\frac{4}{5}$ of: 50, 35, 100...? 2 litres, 5 metres...?
What is $\frac{5}{6}$ of: 12, 48, 300...? 12 km, 30 kg?
- Write $\frac{3}{10}$ of 2 metres in centimetres.
Write $\frac{23}{100}$ of 4 kilograms in grams.
Write $\frac{7}{1000}$ of 1 metre in millimetres.
- What fraction of £1 is 35p? 170p?
What fraction of 1 metre is 140 cm?
- What fraction of 1 km is 253 m?
What fraction of 1 kg is 397 g?
What fraction of 1 litre is 413 ml?
- What fraction of one year is:
one week; one day; June?

Relate fractions to simple proportions.

See ratio and proportion (page 27).