

Key Vocabulary

mass
gram
kilogram
capacity
volume
millilitre
litre
millimetre
centimetre
kilometre
foot
inch
ounce
pound
stone
pint
gallon

Converting Mass

1 tonne = 1000kg

1000g = 1kg

$\frac{1}{10}$  kg = 0.1kg = 100g

$\frac{1}{4}$  kg = 0.25kg = 250g

$\frac{1}{2}$  kg = 0.5kg = 500g

$\frac{3}{4}$  kg = 0.75 = 750g

```

    graph TD
      g[grams (g)] -- "× 1000" --> kg[kilograms (kg)]
      kg -- "÷ 1000" --> t[tonnes (t)]
      t -- "× 1000" --> kg
      kg -- "÷ 1000" --> g
      
```

Converting Capacity

1000ml = 1l

$\frac{1}{10}$  l = 0.1l = 100ml

$\frac{1}{4}$  l = 0.25l = 250ml

$\frac{1}{2}$  l = 0.5l = 500ml

$\frac{3}{4}$  l = 0.75l = 750ml

$\frac{1}{100}$  l = 0.01l = 10ml

```

    graph TD
      ml[millilitre (ml)] -- "÷ 1000" --> l[litres (l)]
      l -- "× 1000" --> ml
      
```

Converting Length

1000m = 1km

100cm = 1m

10mm = 1cm

$\frac{1}{2}$  m = 0.5m = 50cm

$\frac{1}{4}$  m = 0.25m = 25cm

$\frac{3}{4}$  m = 0.75m = 75cm

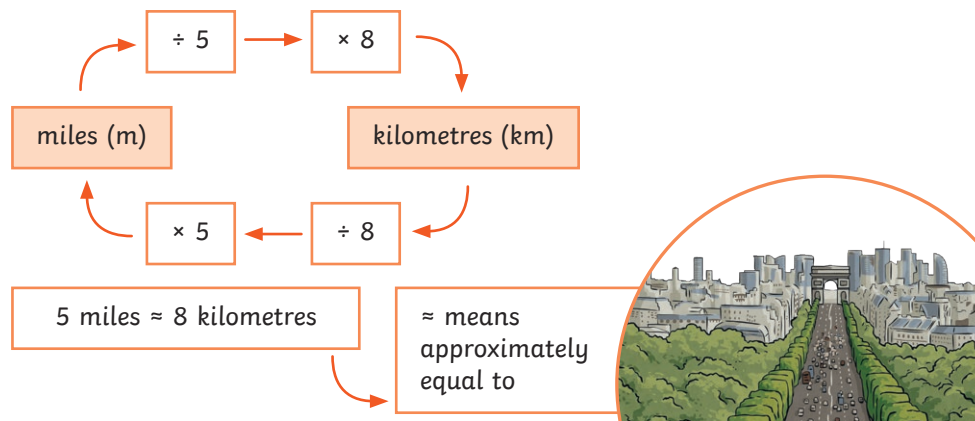
$\frac{1}{10}$  m = 0.01m = 10cm

```

    graph TD
      mm[millimetres (mm)] -- "× 10" --> cm[centimetres (cm)]
      cm -- "× 100" --> m[metres (m)]
      m -- "× 1000" --> km[kilometres (km)]
      km -- "÷ 1000" --> m
      m -- "÷ 100" --> cm
      cm -- "÷ 10" --> mm
      
```

### Miles to Kilometres

You might measure the length of a road or the distance between two cities in miles or kilometres.



### Time

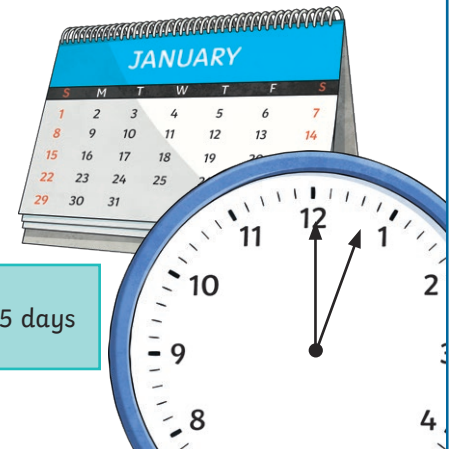
**Minute** 1 minute = 60 seconds

**Hour** 1 hour = 60 minutes

**Day** 1 day = 24 hours

**Week** 1 week = 7 days

**Year** 1 year = 12 months = 52 weeks = 365 days



### Imperial Measures

Things that you could see measured in imperial units in books:

- Someone's height in feet and inches
- The mass of a bag of sugar in ounces
- The mass of a sack of potatoes in pounds
- A person's mass in stones
- A carton of milk in pints
- The amount of water in a bath in gallons

1 foot = 30,48 cm  
 1 pound = 453,59 gr  
 1 stone = 16.35 Kg  
 1 gallon = 4.54 Liters

### Metric to Imperial Conversions

metric (new)	imperial (old)
2.5 centimetres	1 inch
1 kilogram	2.2 pounds
4.5 litres	1 gallon

