Year 5 Measurement

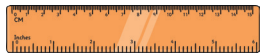
Length

km
m
cm
mm

1 kilometre = 1000 metres

1 metre = 100 centimetres

1 centimetre = 10 millimetres



km
m
yd
ft

1 kilometre = 0.62 miles

1 metre = 1.09 yards

1 metre = 3.28 feet



cm
in
ft
yd

1 centimetre = 0.39 inches

1 foot = 12 inches

1 yard = 3 feet

Capacity

l
cl
ml

1 litre = 1000 millilitres

1 centilitre = 10 millilitres



l
fl oz
pt
gal

1 litre = 35.19 fluid ounces

1 litre = 1.75 pints

1 litre = 0.21 gallons

1 gallon = 8 pints



A **rectilinear** shape is one which is bound by straight lines and can be divided into rectangles or triangles in order to find its area.

Mass

t
kg
g
mg

1 tonne = 1000 kilograms

1 kilogram = 1000 grams

1 gram = 1000 milligrams

g
oz
kg
lb
s

1 gram = 0.035 ounces

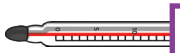
1 kilogram = 2.2 pounds

1 stone = 14 pounds

1 stone = 6.35 kilograms



Temperature

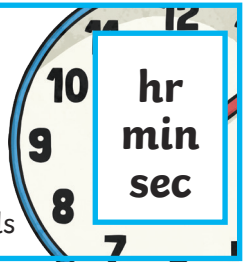


°C
°F

1° celsius = 33.8° fahrenheit

0° celsius = 32° fahrenheit

Time



hr
min
sec

1 day = 24 hours

1 hour = 60 minutes

1 minute = 60 seconds

Currency

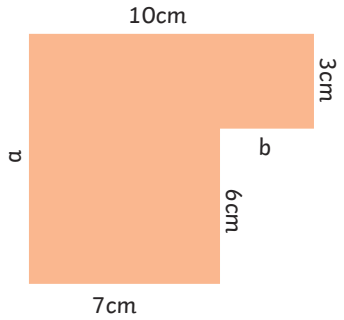


£
p

1 pound = 100 pence

Finding the perimeter of a Rectilinear Shape

You can calculate the perimeter of a rectilinear shape by adding together the length of each side. **You may need to calculate the length of any sides not given.**



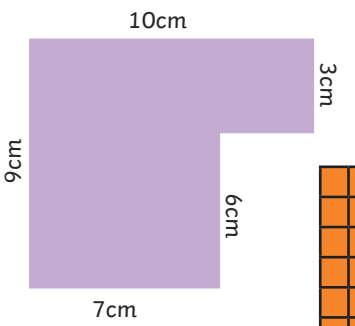
a= 6cm + 3cm = **9cm**

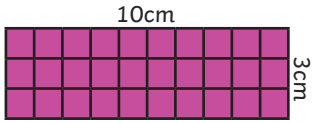
b= 10cm - 7cm = **3cm**

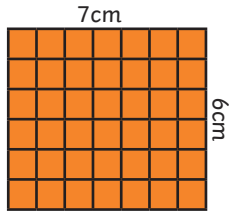
The perimeter:

10cm + 3cm + 3cm + 6cm + 7cm + 9cm = **38cm**

You can calculate the area of shapes made up of rectangles by breaking them down into individual rectangles.







The area:

10cm × 3cm = **30cm²**

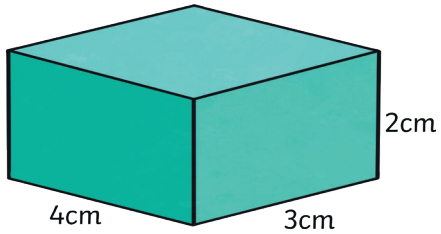
6cm × 7cm = **42cm²**

30cm² + 42cm² = **72cm²**

Volume

3D shapes have volume.

length × height × depth = volume



4cm × 2cm × 3cm = 24cm³

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