

# fs4u

## Calculating using Common Units

### ‘How To’ Booklets 14

# Calculation Using Common Units

You will need ruler and calculator

$10\text{mm} = 1\text{ cm}$ $100\text{ cm} = 1\text{ m}$ $1000\text{m} = 1\text{ km}$
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## Activity A

1 Measure the length and width of this sheet: -

- a) give your answer in cm
- b) give your answer in mm

2. Measure the length and width of your desk: -

- a) give your answer in cm
- b) give your answer in mm
- c) give your answer in m

## Example

The length of my table is 170 cm and the width is 75 cm.

a) Convert these measurements to mm multiply by 10 because  $1\text{cm} = 10\text{mm}$ .

So the length is  $170\text{ cm} \times 10 = 1700\text{mm}$   
and the width is  $75\text{cm} \times 10 = 750\text{ mm}$

b) To convert these measurements to metres divide the cm by 100 because  $1\text{m} = 100\text{ cm}$

length is  $170\text{ cm} \div 100 = 1.7\text{m}$   
width is  $75\text{ cm} \div 100 = 0.75\text{ m}$

# Conversions

FROM	TO	BY	AMOUNT
mm	cm	÷	10
cm	m	÷	100
m	km	÷	1000
cm	mm	x	10
m	cm	x	100
km	m	x	1000
mm	m	÷	1000
m	mm	x	1000

## Activity B

Convert the following into metres (m)

1	2000mm	2	120 cm
3	5 km	4	10000 mm
5	80000 cm	6	70 km

Convert the following into centimetres (cm)

7	20 mm	8	15m
9	2 km (hint first convert to m)		

Convert the following into mm

10	5 cm	11	6m
12	3 km (hint first convert to m)		

NB It is useful to have a knowledge of, or have completed, the section on perimeter and area (workbook 15)