

Metric Conversion

Metric and Imperial Units

Metric Units	Imperial Units
8 km	5 mile
1 km	0.625 mile
1.6 km	1 mile
1 m	40 inches
30 cm	1 foot
2.5 cm	1 inch
1kg	2.2 Lbs
1 litre	1.75 pints
1 gallon	4.5 litres
1 acre	2/5 hectare
450 gm	1 Lb

Imperial Units

1 foot	12 inches
1yard	3 foot
1 pound (lb)	16 ounces
1 stone	14 pounds
1 gallon	8 pints

Metric Units

1km	1000m
1m	100cm
1m	1000mm
1cm	10mm
1tonne	1000kg
1kg	1000gm
1litre	1000ml
1m³	1000ml
1cm³	1ml

1 m = 100 cm.

Here 100 cm is the **conversion factor** between meter and centimetre. Centimetre is the **smaller scale** than metre.

Rule of conversion. (if Conversion factor is more than 1)

i) Smaller scale \longrightarrow Bigger Scale
 \div conversion factor

ii) Bigger scale \longrightarrow Smaller scale
 \times conversion factor

Example:

Convert 5 mile to km.

We know 1 mile = 1.6 km, mile is bigger scale than km,

i) Mile \longrightarrow Km 5 mile = 5 x 1.6 km
 $\times 1.6$ = 8 km.

Exercise:

1) Convert the following units into cm.

a) 12 mm = _____ b) 67 m = _____ c) 2.2 m = _____

2) Change the following lengths into m .

a) 87 cm = _____ b) 67.9 cm = _____ c) 94 km = _____

3) Change the following into km.

a) 28.38 m = _____ b) 53.9 m = _____ c) 9043 m = _____

4) Change the following lengths into mm

a) 7.4 cm = _____ b) 63 cm = _____ c) 14.3 cm = _____

5) Change the following into masses gm.

a) 5.47 kg = _____ b) 2.925 kg = _____ c) 15 kg = _____

6) Change the following masses into kg

a) 8340 gm = _____ b) 3.6 gm = _____ c) 29750 gm = _____

7) . Convert the following masses into kg

a) 8.2 tonnes = _____ b) 160 tonnes = _____ c) 3470 gm = _____

8) .Convert the following volume into ml

a) 0.75 litres = _____ b) $\frac{1}{2}$ litres = _____ c) $\frac{3}{4}$ litres = _____

9) Convert the following volume into litres.

a) 2545 ml = _____ b) 750 ml = _____ c) 65.4 ml = _____

Convert the following measures into given units.

10) 8.73 m = _____ mm 11) 888cm = _____ m

12) 3.6 tonnes = _____ kg 13) 62 ml = _____ litres

14). Complete the table to show what the unites measure. Tick (✓) the correct box

	Length	Area	Volume	Mass
Centimetres				
Litres				
Miles				
Grams				
Square meters				
Ounces				