



- 1 Change 7 cm into mm.

(1 mark)

$$1 \text{ cm} = 10 \text{ mm}$$

$$7 \times 10 = 70 \text{ mm}$$

70

- 2 Change 4.5 m into cm.

(1 mark)

$$1 \text{ m} = 100 \text{ cm}$$

$$4.5 \times 100 = 450 \text{ cm}$$

450

- 3 Convert

- a. 3.5 km to metres
- b. 2.3 litres to millilitres
- c. 450 g to kilograms

(3 marks)

a)

$$3.5 \times 1000 = 3500 \text{ m}$$

b)

$$2.3 \times 1000 = 2300 \text{ mL}$$

c)

$$450 \div 1000 = 0.45 \text{ kg}$$

a) 3500 m b) 2300 mL c) 0.45 kg

4 Fill in the missing number in each statement.

- a. 1 km = ___ m
- b. 1 cm = ___ mm
- c. 1 kg = ___ g
- d. 1 litre = ___ ml

(4 marks)

$$1 \text{ km} = 1000 \text{ m}$$

$$1 \text{ cm} = 10 \text{ mm}$$

$$1 \text{ kg} = 1000 \text{ g}$$

$$1 \text{ Litre} = 1000 \text{ ml}$$

1000, 10, 1000, 1000

5 Change 82 mm into cm.

(1 mark)

Centimetres are larger units than millimetres, so fewer are needed for the same length. Group the millimetres into tens by dividing by 10

$$10 \text{ mm} = 1 \text{ cm}$$

$$82 \div 10 = 8.2 \text{ cm}$$

8.2

6 Convert

- a. 4 tonnes to kilograms
- b. 2500 kg to tonnes

(2 marks)

a)

$$4 \times 1000 = 4000 \text{ kg}$$

b)

$$2500 \div 1000 = 2.5 \text{ tonnes}$$

a) 4000 kg b) 2.5 tonnes

7 Here are three lengths: 0.8 m, 75 cm, 760 mm

Write the lengths in order, starting with the shortest. Show your working.

(3 marks)

$$0.8 \text{ m} = 0.8 \times 100 = 80 \text{ cm}$$

$$760 \text{ mm} = 760 \div 10 = 76 \text{ cm}$$

75 cm, 76 cm, 80 cm

75 cm, 760 mm, 0.8 m

8 Change 3.2 km into metres.

(1 mark)

$$1 \text{ km} = 1000 \text{ m}$$

$$3.2 \times 1000 = 3200 \text{ m}$$

3200

9 Ravi is 1.45 m tall. His sister is 98 cm tall.
Work out their total height. Give your answer in metres.

(3 marks)

$$98 \text{ cm} = 98 \div 100 = 0.98 \text{ m}$$

$$1.45 + 0.98 = 2.43$$

2.43 m

10 Change 2600 g into kg.

(1 mark)

$$1000 \text{ g} = 1 \text{ kg}$$

$$2600 \div 1000 = 2.6 \text{ kg}$$

2.6

11 Change 0.75 litres into millilitres.

(1 mark)

$$1 \text{ litre} = 1000 \text{ ml}$$

$$0.75 \times 1000 = 750 \text{ ml}$$

750

12 Change 640 cm into metres.

(1 mark)

$$100 \text{ cm} = 1 \text{ m}$$

$$640 \div 100 = 6.4 \text{ m}$$

6.4

13 Write down a sensible metric unit for measuring the mass of an apple.

(1 mark)

An apple has a small mass, much less than a kilogram

A sensible metric unit is grams

grams

14 Jack is 1.62 m tall.

Ben is 158 cm tall.

Who is taller, and by how many centimetres?

(2 marks)

Convert to the same units

$$1.62 \text{ m} = 162 \text{ cm}$$

$$162 - 158 = 4$$

Jack is taller, by 4 cm

Jack, by 4 cm

15 Complete these statements.

a. 5.4 kg = _____ g

b. 230 cm = _____ m

(2 marks)

$$\text{a) } 1 \text{ kg} = 1000 \text{ g, so } 5.4 \times 1000 = 5400 \text{ g}$$

$$\text{b) } 100 \text{ cm} = 1 \text{ m, so } 230 \div 100 = 2.3 \text{ m}$$

16 A bottle holds 1.5 litres of apple juice.

Mia fills 6 glasses from the bottle.

Each glass holds 180 ml.

Work out how much juice is left in the bottle.

Give your answer in millilitres.

(3 marks)

$$1.5 \text{ litres} = 1500 \text{ ml}$$

$$6 \times 180 = 1080 \text{ ml poured out}$$

$$1500 - 1080 = 420 \text{ ml left}$$

420

17 A watering can holds 4.5 litres when full.

Rosa pours in 1.2 litres of water, then 600 ml, then 750 ml.

Work out how much more water Rosa needs to pour in to fill the can.

Give your answer in millilitres.

(3 marks)

Convert everything to ml

$$4.5 \text{ litres} = 4500 \text{ ml and } 1.2 \text{ litres} = 1200 \text{ ml}$$

Water poured in so far

$$1200 + 600 + 750 = 2550 \text{ ml}$$

$$4500 - 2550 = 1950 \text{ ml more needed}$$

1950