7 Use the metric system to state how many:

a millimetres are in 1 centimetre
b centimetres are in 1 metre
c metres are in 1 kilometre
d millimetres are in 1 metre
e centimetres are in 1 kilometre
f millimetres are in 1 kilometre

8 Which metric unit would be the most appropriate for measuring the following?

a the distance between two towns
b diameter of a small drill bit
c height of a flag pole
d length of a garden hose
e width of a small desk
f distance across a city

A drill bit

13 Here is the length of 1 mm and 1 cm. Use these diagrams as a guide to estimate the length of these lines.

1 mm 1 cm

a –
b ___
c _____
d _____
e _____

1 Write down the missing number or word in these sentences.

a When converting from metres to centimetres, you multiply by _____.
b When converting from metres to kilometres, you divide by _____.
c When converting from centimetres to metres, you _____ by 100.
d When converting from kilometres to metres, you _____ by 1000.
e When converting to a smaller unit, you _____.
f When converting to a larger unit, you _____.

4 Convert these measurements to the units shown in brackets.

a 5 cm (mm)
b 2 m (cm)
c 3.5 km (m)
d 26.1 m (cm)
e 40 mm (cm)
f 500 cm (m)
g 4200 m (km)
h 472 mm (cm)
i 6.84 m (cm)
j 0.02 km (m)
k 9261 mm (cm)
l 4230 m (km)

5 Add these lengths together and give the result in the units shown in brackets.

a 2 cm and 5 mm (cm)

b 8 cm and 2 mm (mm)

c 2 m and 50 cm (m)

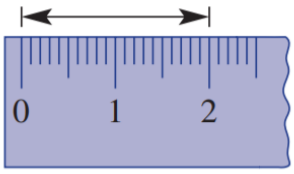
d 7 m and 30 cm (cm)

e 6 km and 200 m (m)

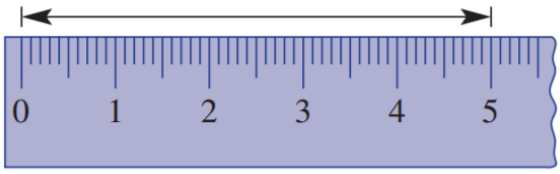
f 25 km and 732 m (km)

7 These rulers show centimetres with millimetre divisions. Read the scale to measure the marked length.

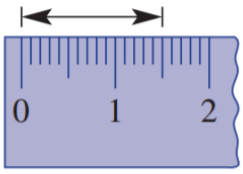
a



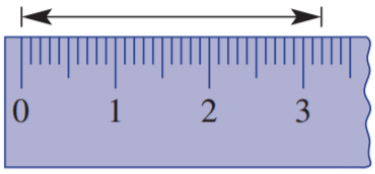
b



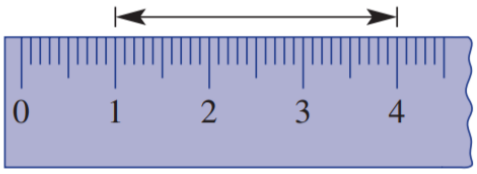
c



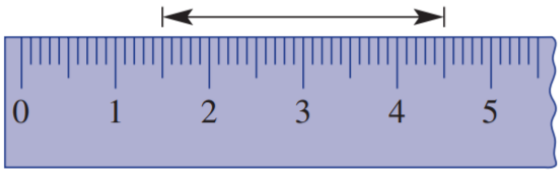
d



e



f



6 Convert to the units shown in the brackets.

a 3 m (mm)

b 6 km (cm)

c 2.4 m (mm)

d 0.04 km (cm)

e 47 000 cm (km)

f 913 000 mm (m)

10 Arrange these measurements from smallest to largest.

a 38 cm, 540 mm, 0.5 m

b 0.02 km, 25 m, 160 cm, 2100 mm

11 Joe widens a 1.2 m doorway by 50 mm. What is the new width of the doorway, in centimetres?

State the most appropriate unit (kilometres, metres or centimetres) for the following.

1 The distance from Sydney to Melbourne. _____

2 The length of your dining table. _____

3 The height of a tower. _____

4 The length of a road. _____

5 Your own height. _____

6 The height of a door. _____

7 The length of a pencil. _____

8 The length of a swimming pool. _____

9 The thickness of your textbook. _____

10 The width of your classroom. _____

11 The length of a mobile phone. _____

12 The length of your car. _____

13 The diameter of a cricket ball. _____

14 The height of a chair. _____

15 The length of a soup spoon. _____

QUESTION 1 Convert the following to centimetres (cm).

i 25 m = _____ **j** 5 m = _____ **k** 6 m = _____ **l** 20 m = _____

m 10 mm = _____ **n** 90 mm = _____ **o** 950 mm = _____ **p** 28 mm = _____

QUESTION 2 Convert the following to metres (m).

i 2500 cm = _____ **j** 840 cm = _____ **k** 1675 cm = _____ **l** 1260 cm = _____

m 3 km = _____ **n** 18 km = _____ **o** 5.65 km = _____ **p** 31.87 km = _____

QUESTION 3 Convert the following to millimetres (mm).

i 37 m = _____ **j** 53 m = _____ **k** 85.9 m = _____ **l** 6.75 m = _____

m 60 cm = _____ **n** 92 cm = _____ **o** 35.6 cm = _____ **p** 38.9 cm = _____