

Converting Between Metric Measures

These questions provide extra practice for the Skills Practice on page 210.

- 1. a)** Write the common abbreviations for the following metric units.

metre kilometre millimetre centimetre

- b)** Arrange the above abbreviations from the longest unit to the shortest unit.

- 2.** Fill in the blanks.

a) There are 1000 _____ in 1 km.

b) 1 cm equals 10 _____.

c) 1 m equals _____ cm.

- 3.** Fill in the blanks using the abbreviations for the metric units.

a) 3 km = 3000 _____

b) 1000 m = 1 _____

c) 400 mm = 40 _____

d) 5 _____ = 50 mm

e) 30 cm = 300 _____

f) 3.5 _____ = 3500 m

g) 450 mm = 4.5 _____

h) 610 mm = 61 _____

You can use proportional reasoning to help you convert centimetres to metres.

$$\begin{array}{ccc} & \div 7 & \\ & \curvearrowright & \\ \frac{700 \text{ cm}}{? \text{ m}} = \frac{100 \text{ cm}}{1 \text{ m}} & \frac{700 \text{ cm}}{? \text{ m}} = \frac{100 \text{ cm}}{1 \text{ m}} & 100 \text{ cm} = 1 \text{ m} \\ & \curvearrowleft & 700 \text{ cm} = 7 \text{ m} \\ & ? \div 7 = 1 & \end{array}$$

- 4.** Convert each measure to the units shown.

a) 600 cm = _____ m

b) 600 m = _____ km

c) 3 cm = _____ mm

d) 3 m = _____ cm

e) 2.5 m = _____ cm

f) 4.5 km = _____ m



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(continued)

5. Circle the larger measure. Show your thinking.

a) 250 m or 25 km

b) 2 m or 220 cm

c) 400 cm or 0.5 km

d) 70 mm or 0.7 m

