

Draw and measure line segments including geometric figures

1 Draw and label the line segments.

a) $AB = 5 \text{ cm}$

b) $XY = 7 \text{ cm}$

c) $MN = 4.5 \text{ cm}$

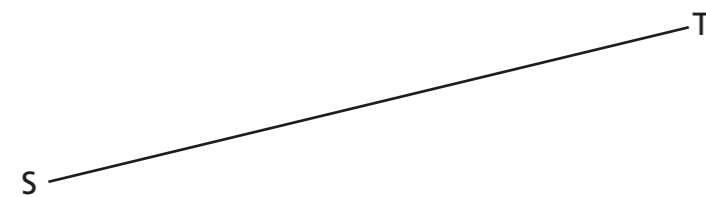
2 Measure the line segments.

a)



$$BC = \boxed{4.1} \text{ cm}$$

b)



$$ST = \boxed{6} \text{ cm}$$

c)



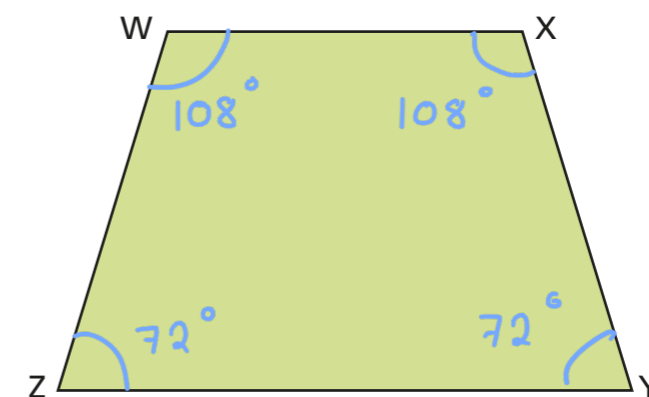
$$PQ = \boxed{2.2} \text{ cm}$$



- 3 Line segments DE and FG are perpendicular.
DE measures 5 cm.
FG measures 4.3 cm.
Draw a diagram to represent this information.



- 4 Here is trapezium WXYZ.



Prove, through measuring, that trapezium WXYZ is isosceles.

Talk about your findings with a partner.



- 5 ABCD is a rectangle.
Side AB measures 3 cm.
Side BC measures 5 cm.

a) Draw and label the rectangle.



b) Measure the length of the diagonal BD.

$$BD = \boxed{5.8} \text{ cm}$$

c) What is the length of the diagonal AC?

$$AC = \boxed{5.8} \text{ cm}$$

Did you need to measure AC?

6 Draw and label the following line segments.

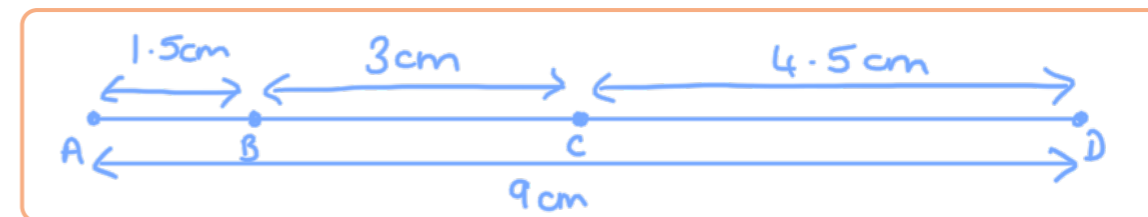
a) $LM = 4\frac{1}{2}$ cm

b) $EF = 5\frac{1}{5}$ cm

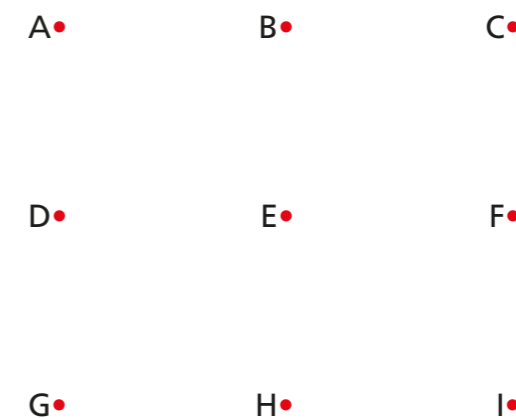
c) $JK = 6\frac{3}{5}$ cm

- 7 Points A, B, C and D lie on a straight line.
AB is half the length of BC.
The length of CD is equal to the length of AC.
AD is 9 cm in length.

Draw an accurate drawing of line segment ABCD.



- 8 Dani thinks line segment AEI will be longer than line segment ABC.
Huan thinks line segment AEI will be the same length as line segment ABC.



a) Who do you agree with? Dani

Measure each line segment to check.

b) Complete the sentences.

DE is equal to GH

GE is half the length of GC

ADG is shorter than CEG