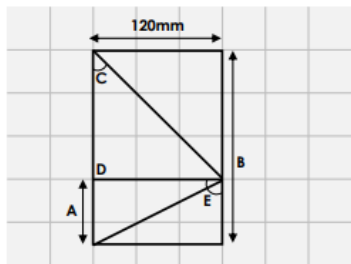


Further Challenge

Images are not drawn to scale. You will need a protractor for the last question.

8. Calculate the length of the sides A and B in centimetres and the angles C, D and E in the shape below.



Side

A = _____

B = _____

Angle

C = _____

D = _____

E = _____



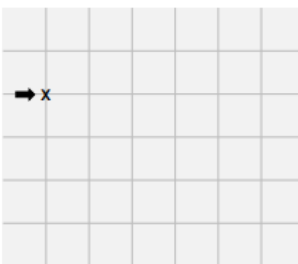
VF
HW/Ex1

9. Starting on X, follow Ciara's instructions and draw her walking route around the park.



Ciara

Move forward two squares.
Turn 45° clockwise.
Move diagonally through three squares.
Turn 135° clockwise.
Move forward through five squares.
Turn 90° clockwise.
Move forward three squares.



Name the shape you have drawn.

1. Look at the lengths and angles given below.

270°

Two 2cm lines

A right angle

A third of a right angle

A 5cm line



Imogen wants to create a shape that includes all of the lengths and angles above.

Using your knowledge of angles around a point and on straight lines, investigate different possible shapes that would work. Use a ruler and protractor to help you.

8. $A = 6\text{cm}$; $B = 18\text{cm}$. C is 45° ; D is 90° ; E is 90° .

9. The shape drawn is a trapezium.

Various answers possible including:

