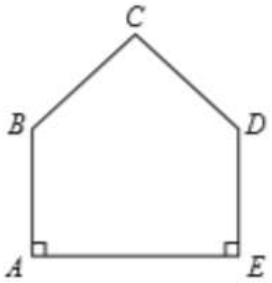
Edexcel Nov 18 P2 (5 marks)

17 The diagram shows a pentagon.
The pentagon has one line of symmetry.

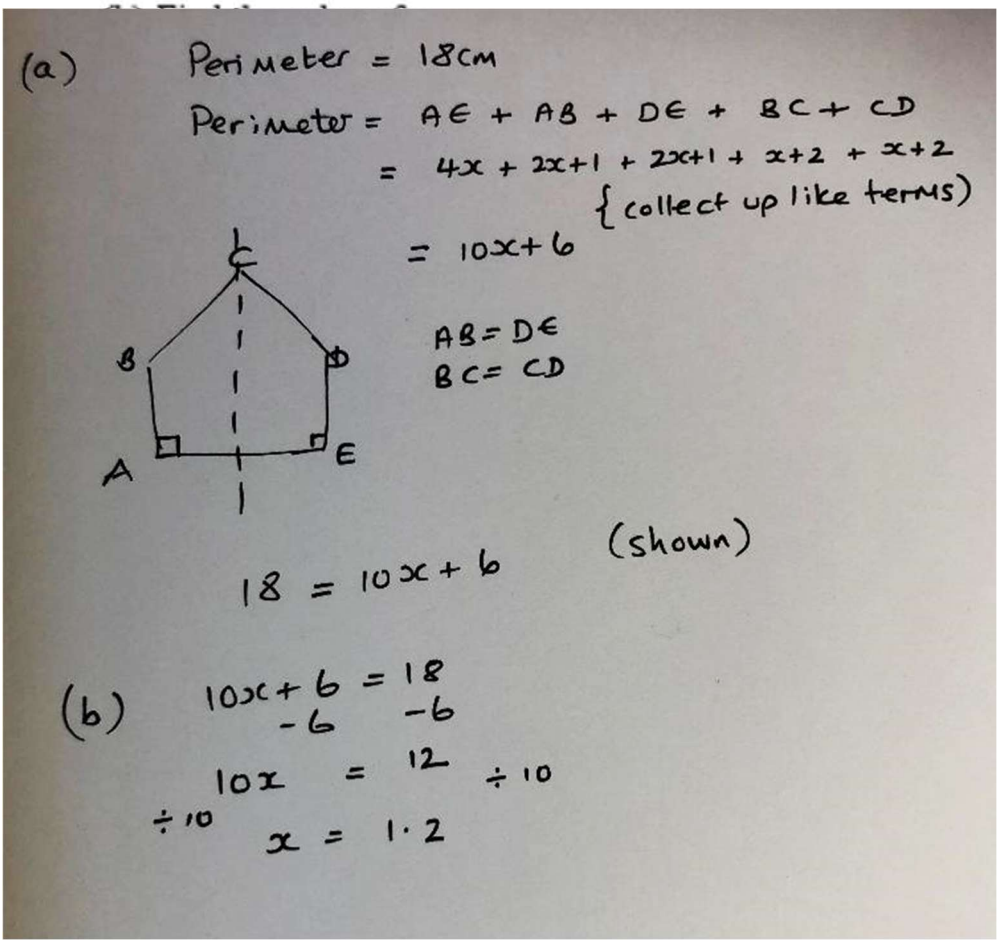


$AE = 4x$
$AB = 2x + 1$
$BC = x + 2$

All these measurements are given in centimetres.

The perimeter of the pentagon is 18 cm.

(a) Show that $10x + 6 = 18$



Your turn: Use the diagram above

.1.
What if ……
BC = 3x
AE = 4x – 1
DE = x + 4
Perimeter = 61cm

(a) **Show that 12x + 7 = 61**
(b) **Find the value of x**

.2.
What if ……
CD = 8 + 7x
AE = 11x
AB = x = 0.5
Perimeter = 15.5 cm

(a) **Show that 27x + 15 = 15.5**
(b) **Find the value of x**

Answers:
1. x=4.5
2. x=0.5