1. Here are five straight rods.

<a-1> < a-> < a-> < a+4 >>

All measurements are in centimetres.

The total length of the five rods is L cm.

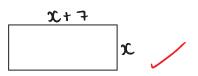
Find a formula for *L* in terms of *a*. Write your formula as simply as possible.

h = a - 1 + a + a + a + a + 4h = 5a + 3

5a+3

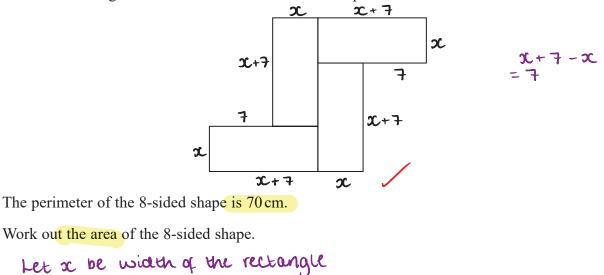
(Total for Question is 3 marks)

2. Here is a rectangle.



The length of the rectangle is 7 cm longer than the width of the rectangle.

4 of these rectangles are used to make this 8-sided shape.



$$70 = x + 7 +$$

Area of rectangle = width > length = x(x+7)= $3.5 \times (3.5+7)$ = 3.5×10.5 = 36.25

$$36.25 \times 4 = 147 \text{ cm}^2$$



(Total for Question is 5 marks)