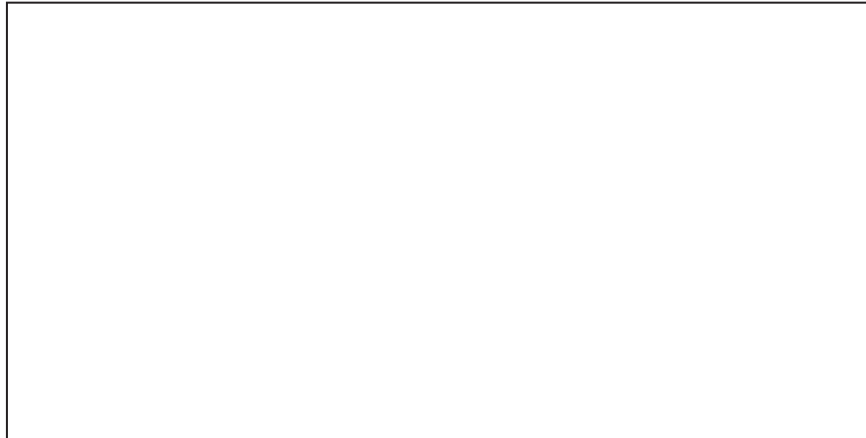


1. The diagram shows a **scale drawing** of a tennis court.

(11.3 → 11.7) 11.5 ① measured with a ruler

(5.6 → 6.0)
5.8 cm



The **scale** of the drawing is **1:200** 1 cm on paper = 200 cm in real life

Work out the **perimeter** of the **real** tennis court.

Give your answer in **metres**.

Finding actual dimensions:

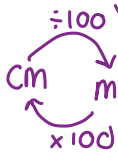
$$\text{width: } 5.8 \times 200 = 1160 \text{ cm } ①$$

$$\text{length: } 11.5 \times 200 = 2300 \text{ cm}$$

Perimeter of real rectangle:

$$\begin{aligned} (2 \times \text{width}) + (2 \times \text{height}) &= (2 \times 1160) + (2 \times 2300) \\ &= 6920 \text{ cm } ① \end{aligned}$$

Converting into metres:



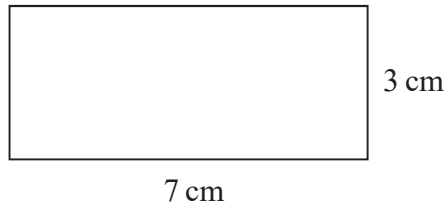
$$6920 \div 100 = 69.2 \text{ m } ①$$

Answer range:
67.6 → 70.8

..... 69.2 ① metres

(Total for Question is 5 marks)

2. Here is a rectangle.



Coby has to find the perimeter of this rectangle.

He writes,

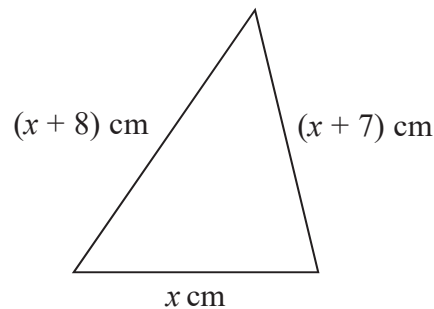
$$\text{Perimeter} = 7 \times 3$$

(a) What mistake has Coby made?

Worked out the area not the perimeter ✓

(1)

Here is a triangle.



Iram solves a problem about this triangle to find the value of x .

Her answer is

$$x = -2$$

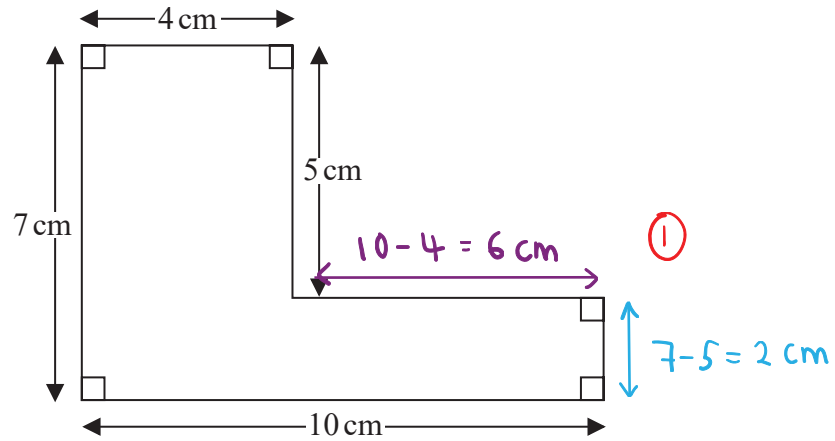
(b) Explain why Iram's answer must be wrong.

x can not be negative because it is a length ✓

(1)

(Total for Question is 2 marks)

3.



Work out the perimeter of this shape.

$$\text{Perimeter} = 7 + 4 + 5 + 6 + 2 + 10 = 34 \text{ cm}$$

① 34 cm

(Total for Question is 2 marks)