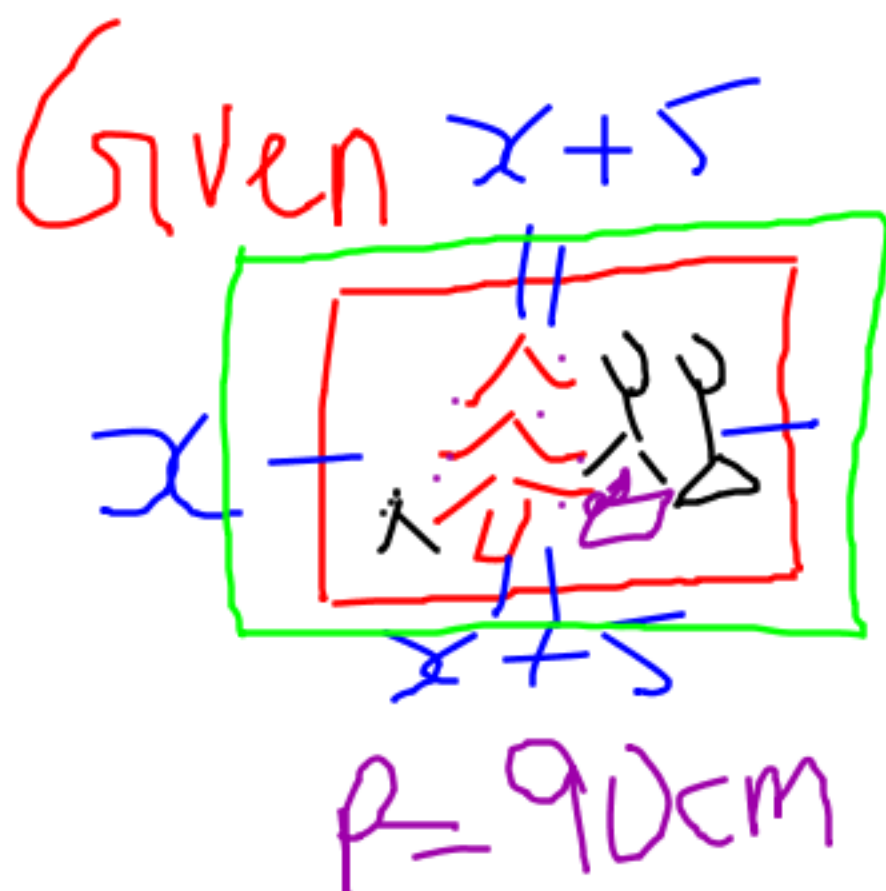


37. Picture A picture is 5 cm longer than it is wide. The perimeter of the picture is 90 cm.

a) What is the width of the picture?

b) The picture is surrounded by a 6-cm wide border. What are the outside dimensions of the border?



Let x = the width
 then $x+5$ = the length

$$P = 2w + 2L$$

$$90 = 2x + 2(x+5)$$

$$90 = 2x + 2x + 10$$

$$90 = 4x + 10$$

$$80 = 4x$$

$$x = 20$$

Find the dimensions
 ∴ the width is 20 cm
 & the length 25 cm

38. Garden A garden is 20 m by 25 m. It is surrounded by a walkway. The outside perimeter of the walkway is 114 m. What is the width of the walkway? Explain and justify the steps in your solution.

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38. Garden A garden is 20 m by 25 m. It is surrounded by a walkway. The outside perimeter of the walkway is 114 m. What is the width of the walkway? Explain and justify the steps in your solution.

Given:

$$P = 114 \text{ m}$$



Outside length:

$$x + 25 + x = 2x + 25$$

outside width

$$x + 20 + x = 2x + 20$$

Find: the width of the walkway

Let x = the width of the walkway

HW

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- Review sheet (Quest Thurs)

↓ 2 more distance
problems

there will be a review
video