

Answer ALL TWELVE questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

1

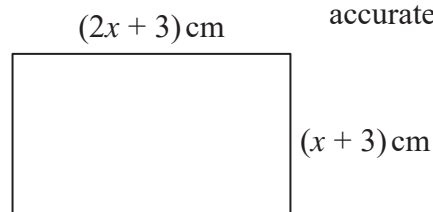
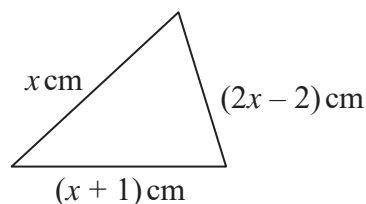


Diagram **NOT**
accurately drawn

Figure 1

Figure 1 shows a triangle and a rectangle.

The triangle has sides of length x cm, $(2x - 2)$ cm and $(x + 1)$ cm.

The rectangle has length $(2x + 3)$ cm and width $(x + 3)$ cm.

The perimeter of the rectangle is 3 times the perimeter of the triangle.

(a) Write down an equation in x to represent the given information.

(2)

(b) Solve your equation to find the value of x .
Show clear algebraic working.

(3)

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DO NOT WRITE IN THIS AREA

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Question 1 continued

Handwriting practice area with horizontal dotted lines.

(Total for Question 1 is 5 marks)

