3.13 Substitution: 10-minute Pack

EDEXCEL 1MA1 · Calculator allowed · about 10 minutes

Total Marks

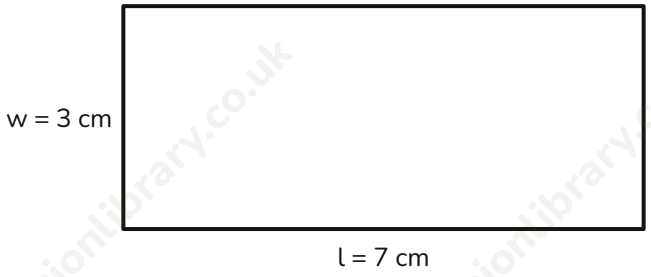
Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Evaluate 5a - 2 when a = 3.

(Total for Question 1 is 1 mark)

2 A rectangle has length l = 7 cm and width w = 3 cm. The perimeter P is given by P = 2(l + w). Work out P.



(Total for Question 2 is 1 mark)

3 Evaluate the expression (x + 2)(when x = 5) and then find 3 times that result. In other words, first find x + 2, then multiply by 3.

(Total for Question 3 is 2 marks)

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4 The formula S = 3x + 2y gives the score S. Find S when x = 2 and y = 5.

(Total for Question 4 is 2 marks)

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5 Work out the value of $3n^2 + 6n + 5$ when n = 5.

(Total for Question 5 is 3 marks)

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Question 1

13 cao **B1**

Answer: 13

Question 2

20 cm cao **B1**

Answer: 20 cm

Question 3

find x + 2 = 7 and show multiplication by 3 **M1**

21 cao **A1**

Answer: 21

Question 4

substitute x = 2 and y = 5 into 3x + 2y **M1**

16 cao **A1**

Answer: 16

Question 5

squares 5 correctly: 25 **M1**

complete substitution **M1**

110 **A1**

Answer: 110

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