2.6 Substitution into Expressions and Formulae: 10-minute Pack

Calculators not allowed · about 10 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Use the formula P = 2(l + w) to find the perimeter of a rectangle with l = 4 and w = 2.

(2)

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2 The formula for the cost of bus travel is C = 0.5n + 1, where n is the number of journeys. Work out C when n = 6.

(3)

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3 Evaluate 2(x + 3) when x = 4. Show the substitution and give the final value.

(3)

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Question 1

substitutes l and w and evaluates 2(4+2)	**M1**
12 cao	**A1**

Answer: **12**

Question 2

substitutes 6 for n and shows 0.5 x 6 + 1 or equivalent	**M1**
evaluates 0.5 x 6 = 3 or shows intermediate step	**M1**
£4 cao	**A1**

Answer: **4**

Question 3

substitutes 4 into x + 3 to get (4 + 3) or shows step	**M1**
multiplies by 2 correctly to get 2 x 7	**M1**
14 cao	**A1**

Answer: **14**

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