2.7 Writing an Expression: 10-minute Pack

EDEXCEL 1MA1 · Calculator allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Write down an expression for 6 less than y.

(Total for Question 1 is 1 mark)

2 There are p pencils in each pack.

(a) Write an expression, in terms of p, for the total number of pencils in 4 packs. **(1)**

(b) Suri buys 4 packs of pencils and is then given 3 more loose pencils. Write an expression, in terms of p, for the total number of pencils Suri now has. **(1)**

(Total for Question 2 is 2 marks)

3 Which expression correctly represents '5 subtracted from twice a number, x'?

- ☐ A) 2x - 5
- ☐ B) 5 - 2x
- ☐ C) 2(x - 5)
- ☐ D) x - 10

(Total for Question 3 is 1 mark)

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4 A number is x. The sum of x and 5 is multiplied by 3. Write an expression, in terms of x, for the result.

(Total for Question 4 is 2 marks)

5 Amelia has a rectangular piece of fabric of length (3x + 2) cm and width (x + 4) cm. She trims a 1 cm border all around the fabric. Work out an expression, in terms of x, for the perimeter of the trimmed fabric. Simplify your answer.

(Total for Question 5 is 3 marks)

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Mark scheme · 2.7 Writing an Expression: 10-minute Pack

Question 1

y - 6 oe (not 6 - y) **B1**

Answer: y - 6

Question 2

(a) 4p oe **B1**

(a) Answer: 4p

(b) 4p + 3 oe **B1**

(b) Answer: 4p + 3

Question 3

A (2x - 5) cao **B1**

Answer: A) 2x - 5

Question 4

(x + 5) identified as the sum **M1**

3(x + 5) oe 3x + 15 **A1**

Answer: 3(x + 5)

Question 5

subtract 2 cm from length and width to account for 1 cm border each side, L = (3x + 2) - 2, W = (x + 4) - 2 **M1**

use perimeter = 2(L + W) with substituted expressions, e.g. 2[(3x) + (x) + 2] **M1**

8x + 4 cao **A1**

Answer: 8x + 4

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