FOUNDATION

2.6 Simplifying Algebra: 10-minute Pack

EDEXCEL 1MA1 · Calculator allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Simplify 9b - 4b

(Total for Question 1 is 1 mark)

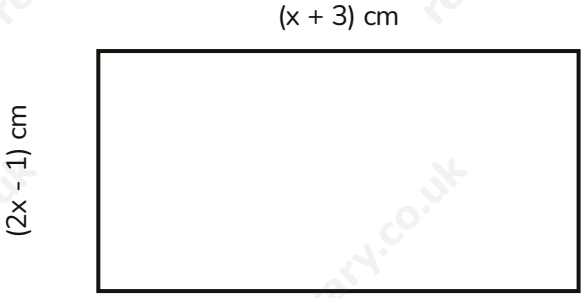
2 Expand and simplify 3(x + 2) + 2x

(Total for Question 2 is 2 marks)

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3 The diagram shows a rectangle. The length is (x + 3) cm and the width is (2x - 1) cm. Write down an expression, in terms of x, for the perimeter of the rectangle. Give your answer in its simplest form.

Diagram NOT accurately drawn



(Total for Question 3 is 3 marks)

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4 Simplify 3a + 7b + b + 5

(Total for Question 4 is 2 marks)

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Mark scheme · 2.6 Simplifying Algebra: 10-minute Pack

A correct answer earns full marks unless the question asks for working, a method, proof or explanation.

Question 1

5b cao	**B1**

Answer: 5b

Question 2

3x + 6 seen (bracket expanded correctly)	**M1**
5x + 6 oe cao	**A1**

Answer: 5x + 6

Question 3

(x + 3) + (2x - 1) + (x + 3) + (2x - 1) oe seen, or 2(x + 3) + 2(2x - 1) oe seen	**M1**
2x + 6 + 4x - 2 oe seen (brackets correctly expanded)	**M1**
6x + 4 oe cao	**A1**

Answer: 6x + 4

Question 4

collects at least two like terms correctly	**M1**
3a + 8b + 5 cao	**A1**

Answer: 3a + 8b + 5

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