2.1 Algebra: Expressions and Formulae: 10-minute Pack

Calculator allowed · about 10 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Write an expression.
A number, t, add 8.

(1)

2 Simplify 4a + 7a.

(1)

3 Expand 4(x + 5).

(2)

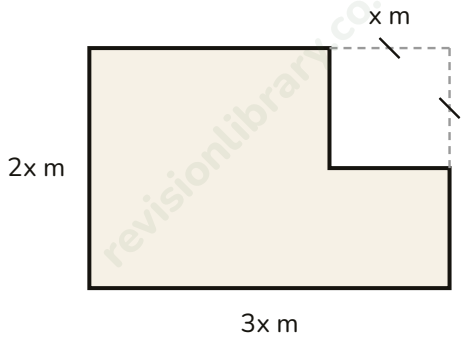
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4 Factorise fully 15y - 20.

(1)

5 An L-shaped garden is made from a rectangle of length 3x m and width 2x m, with a smaller square of side x m removed from one corner.

Diagram NOT accurately drawn



(a) Write an expression, in its simplest form, for the area of the L-shaped garden. **(2)**

(b) Given that x = 3, find the numerical area of the garden in m^2. **(2)**

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Mark scheme · 2.1 Algebra: Expressions and Formulae: 10-minute Pack

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

Question 1

t + 8 oe — **B1**

Answer: **t + 8**

Question 2

11a cao — **B1**

Answer: **11a**

Question 3

multiplies both terms by 4 — **M1**

4x + 20 cao — **A1**

Answer: **4x + 20**

Question 4

5(3y - 4) cao — **B1**

Answer: **5(3y - 4)**

Question 5

(a) 3x x 2x (=$6x^2$) and x x x (=x^2) both found, with subtraction set up — **M1**

(a) $5x^2$ cao oe — **A1**

(a) Answer: **$5x^2$**

(b) 5 x 3^2 substituted, i.e. 5 x 9 seen — **M1**

(b) 45 m² cao — **A1**

(b) Answer: **45 m^2**

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