2.14 Introduction to Factorising Quadratics: 10-minute Pack

Calculators not allowed · about 10 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Factorise fully and solve $x^2 - 5x - 24 = 0$

(3)

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2 Factorise $x^2 + 13x + 36$ fully and state the roots of the quadratic equation $x^2 + 13x + 36 = 0$.

(4)

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3 Factorise: $x^2 + 2x - 8$

(1)

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Mark scheme · 2.14 Introduction to Factorising Quadratics: 10-minute Pack

Question 1

Factorise correctly to (x - 8)(x + 3) or equivalent	**M1**
Set factors to zero shown (x - 8 = 0, x + 3 = 0)	**A1**
Correct solutions x = 8 and x = -3 cao	**A1**

Answer: **x = 8, x = -3**

Question 2

Identify two numbers multiply to 36 and add to 13	**M1**
Correct factorisation (x + 4)(x + 9)	**M1**
Set factors to zero method shown	**A1**
Correct roots x = -4 and x = -9 cao	**A1**

Answer: **x = -4, x = -9**

Question 3

Correct factorisation (x + 4)(x - 2) cao	**B1**

Answer: **(x + 4)(x - 2)**

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