

# Topic Test 1 (20 minutes)

## Solving quadratic equations - Foundation

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1 Expand and simplify  $(x + 5)(x - 4)$

[2 marks]

Answer \_\_\_\_\_

2 Factorise  $x^2 + 12x + 20$

[2 marks]

Answer \_\_\_\_\_

3 Solve the equation  $x^2 + 4x - 12 = 0$

[3 marks]

Answer \_\_\_\_\_

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4 Solve the equation  $x^2 - 25 = 0$

[1 mark]

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Answer \_\_\_\_\_

5 Solve  $x^2 - 11x + 30 = 0$

[3 marks]

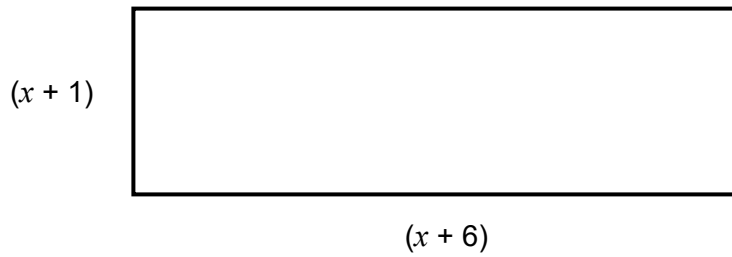
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Answer \_\_\_\_\_

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**6** The area of the rectangle is  $66 \text{ cm}^2$



**6 (a)** Using this information, show that  $x^2 + 7x - 60 = 0$

**[3 marks]**

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Answer \_\_\_\_\_

**6 (b)** Solve the equation to find  $x$

**[3 marks]**

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Answer \_\_\_\_\_