

Solving quadratic equations by factorising

Grade 5 | Foundation and Higher | 13 questions, 43 marks

GCSE Maths topic practice



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Name: _____

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1 Solve $(x + 3)(x - 9) = 0$

(2 marks)

Answer _____

2 Solve $x^2 + 8x + 12 = 0$

(3 marks)

Answer _____

3 Solve $x^2 - 36 = 0$

(2 marks)

Answer _____

4 Solve $x^2 - 5x - 24 = 0$

(3 marks)

Answer _____

5 Solve $x^2 - 11x + 28 = 0$

(3 marks)

Answer _____

6 Solve $x^2 - 10x + 25 = 0$

(3 marks)

Answer _____

7 Solve $x^2 = 7x$

(3 marks)

Answer _____

8 Solve $x^2 - 2x = 35$

(3 marks)

Answer _____

9 Solve $x^2 + 5x - 4 = 3x + 11$

(4 marks)

Answer _____

10 A triangle has a base of $(x + 2)$ cm and a perpendicular height of x cm. The area of the triangle is 12 cm^2 .

Work out the value of x .

(4 marks)

Answer _____

11 The width of a rectangle is w cm.

The length of the rectangle is 3 cm more than its width.

The area of the rectangle is 40 cm^2 .

Find the value of w .

(4 marks)

Answer _____

12 Two positive whole numbers differ by 5.

The product of the two numbers is 84.

By forming and solving a quadratic equation, find the two numbers.

(4 marks)

Answer _____

13 A rectangular garden is x metres wide. It is 5 metres longer than it is wide. The area of the garden is 84 m^2 .

a. Show that $x^2 + 5x - 84 = 0$

b. Solve the equation and so work out the perimeter of the garden.

(5 marks)

Answer _____

End of questions | Total 43 marks