

Name: \_\_\_\_\_

Exam Style Questions

## Solving Quadratics by Factorising (Foundation)



Corbettmaths

Ensure you have: Pencil, pen, ruler, protractor, pair of compasses and eraser

You may use tracing paper if needed

### Guidance

1. Read each question carefully before you begin answering it.
2. Don't spend too long on one question.
3. Attempt every question.
4. Check your answers seem right.
5. Always show your workings

Revision for this topic

[www.corbettmaths.com/contents](http://www.corbettmaths.com/contents)

## Video 266



1. Solve  $(x - 1)(x - 4) = 0$

.....  
(2)

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2. Solve  $x^2 + 5x + 6 = 0$

.....  
(2)

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3. Solve  $x^2 + 9x + 14 = 0$

.....  
(2)

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4. Solve  $x^2 + 21x + 20 = 0$

.....  
(2)

5. Solve  $x^2 - 3x - 18 = 0$

.....  
(2)

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6. Solve  $x^2 - 49 = 0$

.....  
(2)

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7. Solve  $x^2 - 2x - 8 = 0$

.....  
(2)

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8. Solve  $x^2 + 10x - 24 = 0$

.....  
(2)

9. Solve  $x^2 - 13x + 30 = 0$

.....  
(2)

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10. Solve  $y^2 + 4y - 12 = 0$

.....  
(2)

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11. Solve  $m^2 + 24m + 63 = 0$

.....  
(2)

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12. Solve  $m^2 - 16m + 64 = 0$

.....  
(2)

13. Solve  $y^2 - 6y = 27$

.....  
(2)

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14. Solve  $w^2 + 2w = 8$

.....  
(2)

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15. Solve  $x^2 = 8x - 15$

.....  
(2)

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16. Solve  $x^2 + 70 = 17x$

.....  
(2)

17. Solve  $y^2 + 9y + 2 = 8y + 58$

.....  
**(2)**

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18. Victor is  $y$  years old.  
His brother Fred is four years old than Victor.

The product of their ages is 780.

(a) Set up an equation to represent this information.

.....  
**(2)**

(b) Solve your equation from (a) to find Victor's age.

.....  
**(2)**

19. A rectangular field is 30m longer than wide.  
The area of the field is  $8800\text{m}^2$

Work out the perimeter of the field.

.....m  
(4)