

SOLVING QUADRATIC EQUATIONS BY FACTORISING – ANSWERS

Year Group: 9, Ability: Higher, Tier: higher, Grade Range: 3-5, Exam Board: Edexcel,
Develop Topic: Solving Quadratic Equations by Factorising, Question Count: 30, Timestamp:
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ANSWERS

SPIRAL

1. Number line with closed circle at -1, open circle at 4, shaded between.
 2. $x < -4$
 3. $y = 3$
 4. 150°
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DEVELOP

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|-------------------------|---------------------------|
| 1. $x = -2, -3$ | 2. $x = -2, -6$ |
| 3. $x = 5, -2$ | 4. $x = 3, -5$ |
| 5. $x = 7, 3$ | 6. $x = 7, -7$ |
| 7. $x = 0, -7$ | 8. $x = 0, 4$ |
| 9. $x = -0.5, -3$ | 10. $x = -1, -7/3$ |
| 11. $x = 3, -0.5$ | 12. $x = 2, -2$ |
| 13. $x = 2, 0.6$ | 14. $x = 2/3, -2.5$ |
| 15. $x = 4, 2/3$ | 16. $x = -1.5$ (repeated) |
| 17. $x = 0.6, -1$ | 18. $x = 2.5, 2$ |
| 19. $x = -2$ (repeated) | 20. $x = 3$ (repeated) |
| 21. $x = 7, -2$ | 22. $x = 3, -6$ |
| 23. $x = 2.5, -1$ | 24. $x = 1/3, -3$ |
| 25. $x = 2, 0.75$ | 26. $x = 3, -2.5$ |
| 27. $x = 5, -4$ | 28. $x = -0.5, 4$ |
| 29. $x = 0, 5$ | 30. $x = 8, -3$ |
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APPLY

1. Width = 7m, Length = 12m
2. 7 and 8, or -8 and -7