YEAR 10 MATHS

Solving Quadratic Equations

Solve quadratics using factorising and the null factor law

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Name: _____ **Date:** _____ **Score:** _____ / 11

Null factor law: if ab = 0, then a = 0 or b = 0. Factorise first, then solve.

1. $(x - 3)(x + 5) = 0$ x = _____
2. $(x + 2)(x + 7) = 0$ x = _____
3. $(x - 4)(x - 1) = 0$ x = _____
4. $x^2 - 5x + 6 = 0$ x = _____
5. $x^2 - 2x - 24 = 0$ x = _____
6. $x^2 + 9x + 8 = 0$ x = _____
7. $x^2 - 3x - 10 = 0$ x = _____
8. $x^2 - 14x + 49 = 0$ x = _____
9. $x^2 = 49$ x = _____
10. $x^2 = 81$ x = _____
11. $x^2 - 6x = 0$ x = _____

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Null factor law: if ab = 0, then a = 0 or b = 0. Factorise first, then solve.

1. $x = -5$ or $x = 3$
2. $x = -7$ or $x = -2$
3. $x = 1$ or $x = 4$
4. $x = 2$ or $x = 3$
5. $x = -4$ or $x = 6$
6. $x = -8$ or $x = -1$
7. $x = -2$ or $x = 5$
8. $x = 7$
9. $x = -7$ or $x = 7$
10. $x = -9$ or $x = 9$
11. $x = 0$ or $x = 6$

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