



Factorise and Solve Quadratics

Warm up – Factorise:

1. $27c + 36$

2. $21a - 15$

3. $18w^2 + 9w$

Stage 1 – Solve:

1. $x^2 + 8x + 12 = 0$

6. $x^2 + 14x + 49 = 0$

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

7. $x^2 + 2x + 1 = 0$

3. $x^2 + 8x + 7 = 0$

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

4. $x^2 + 7x + 10 = 0$

9. $x^2 + 8x + 15 = 0$

5. $x^2 + 9x + 20 = 0$

10. $x^2 + 7x + 10 = 0$

Stage 2 – Solve:

1. $x^2 + 2x - 8 = 0$

6. $x^2 + 2x - 15 = 0$

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

7. $x^2 + 2x - 24 = 0$

3. $x^2 + 3x - 10 = 0$

8. $x^2 + 5x - 66 = 0$

4. $x^2 + 6x - 7 = 0$

9. $x^2 + 8x - 33 = 0$

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

10. $x^2 + 4x - 5 = 0$

Stage 3 – Solve:

1. $x^2 - 9x - 10 = 0$

6. $x^2 - 3x - 10 = 0$

2. $x^2 - 3x - 4 = 0$

7. $x^2 - 4x - 45 = 0$

3. $x^2 - x - 72 = 0$

8. $x^2 - x - 56 = 0$

4. $x^2 - x - 12 = 0$

9. $x^2 - 3x - 18 = 0$

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

10. $x^2 - 5x - 6 = 0$

Stage 4 – Solve:

1. $x^2 - 5x + 6 = 0$

6. $x^2 - 12x + 20 = 0$

2. $x^2 - 7x + 10 = 0$

7. $x^2 - 6x + 5 = 0$

3. $x^2 - 6x + 8 = 0$

8. $x^2 - 11x + 18 = 0$

4. $x^2 - 4x + 3 = 0$

9. $x^2 - 10x + 16 = 0$

5. $x^2 - 9x + 20 = 0$

10. $x^2 - 7x + 12 = 0$

Stage 5 – Solve:

1. $x^2 + 13x + 30 = 0$

5. $x^2 - 15x + 56 = 0$

2. $x^2 + 17x + 60 = 0$

6. $x^2 + 9x + 18 = 0$

3. $x^2 + 6x + 8 = 0$

7. $x^2 - 2x - 48 = 0$

4. $x^2 - 12x + 35 = 0$

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