Extra Content for Foundation GCSE



91. Using the Difference of Two Squares to Factorise

Practice Questions

- 1. Factorise $x^2 9$.
- 2. Factorise $x^2 25$.
- 3. Factorise $4x^2 16$.
- 4. Factorise $x^2 49$.
- 5. Factorise $9x^2 4$.
- 6. Factorise $x^2 64$.
- 7. Factorise $16x^2 81$.
- 8. Factorise $x^2 121$.
- 9. Factorise $25x^2 36$.
- 10. Factorise $x^2 1$.

Scenario Questions

- 1. A square garden has an area of $x^2 9$ square meters. Find the possible side lengths.
- 2. A carpenter cuts a square hole from a larger square, leaving an area of $x^2 25$ cm². Find the possible dimensions.
- 3. A metal sheet has an area of $4x^2 16$ cm² after a square is cut from it. Find possible side lengths.
- 4. The area of a frame is x^2-49 cm². Find its possible dimensions.
- 5. A design has an area of $9x^2 4$. Find the possible dimensions.
- 6. A plot of land has an area of $x^2 64$ square meters. Find two possible lengths.
- 7. A factory cuts a square hole from a large metal plate, leaving an area of $16x^2 81$ cm². What are the possible dimensions?
- 8. A city square has an area of $x^2 121$ square meters. Find its possible side lengths.
- 9. A shop floor's tiling pattern has an area of $25x^2 36$. Factorise to find possible lengths.
- 10. A door panel has a decorative cut-out with an area of $x^2 1$. Find the possible dimensions.

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91. Using the Difference of Two Squares to Factorise

Practice Questions

- 1. (x+3)(x-3)
- 2. (x+5)(x-5)
- 3. 4(x+2)(x-2)
- 4. (x+7)(x-7)
- 5. (3x+2)(3x-2)
- 6. (x+8)(x-8)
- 7. (4x+9)(4x-9)
- 8. (x+11)(x-11)
- 9. (5x+6)(5x-6)
- 10. (x+1)(x-1)

Scenario Questions

- 1. Side lengths: x + 3 and x 3
- 2. Dimensions: x + 5 and x 5
- 3. Side lengths: 2(x+2) and 2(x-2)
- 4. Dimensions: x + 7 and x 7
- 5. Dimensions: 3x + 2 and 3x 2
- 6. Lengths: x + 8 and x 8
- 7. Dimensions: 4x + 9 and 4x 9
- 8. Side lengths: x + 11 and x 11
- 9. Lengths: 5x + 6 and 5x 6
- 10. Dimensions: x + 1 and x 1