Extra Content for Foundation GCSE

81. Square Numbers and Their Roots

Practice Questions

1. What is 4^2?
2. Find $\sqrt{49}$.
3. What is the square of 12?
4. Solve $\sqrt{144}$.
5. Write all square numbers up to 100.
6. Find the square root of 225.
7. Solve $\sqrt{81} + 5^2$.
8. A square has an area of 64 cm². Find the side length.
9. What is the square of 1.5?
10. Find the missing number: $x^2 = 121$.

Scenario Questions

1. A football pitch has an area of 900 m². If it is a square, what is its side length?
2. A builder is tiling a 4m × 4m area. How many 1m² tiles will they need?
3. A company wants to create square-shaped posters, each with an area of 49 cm². What is the side length?
4. A garden is shaped like a square with an area of 144 m². What is the length of one side?
5. A box has a square base with an area of 81 cm². What is the length of one side?
6. A car park is 100 m² in area and is square. What is the side length?
7. A square mirror has an area of 400 cm². What is the side length?
8. A square piece of metal has an area of 121 cm². What is the length of one side?
9. A town builds a 10m × 10m square plaza. What is the total area?
10. A chessboard is 8 squares by 8 squares. How many squares are there in total?

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Practice Questions

1. 16
2. 7
3. 144
4. 12
5. 1, 4, 9, 16, 25, 36, 49, 64, 81, 100
6. 15
7. 34 ($\sqrt{81} = 9, 5^2 = 25, 9 + 25 = 34$)
8. 8 cm
9. 2.25
10. 11

Scenario Questions

1. 30 m
2. 16 tiles
3. 7 cm
4. 12 m
5. 9 cm
6. 10 m
7. 20 cm
8. 11 cm
9. 100 m²
10. 64 squares