Extra Content for Foundation GCSE



82. Cube Numbers and Their Roots

Practice Questions

- 1. What is 3^3 ?
- 2. Find $\sqrt[3]{64}$.
- 3. Solve 4^3 .
- 4. Find $\sqrt[3]{27}$.
- 5. Write all cube numbers up to 1000.
- 6. What is the cube of 5?
- 7. Find the cube root of 512.
- 8. Solve $2^3 + 3^3$.
- 9. What is the cube of 10?
- 10. Find the missing number: $x^3 = 125$.

Scenario Questions

- 1. A box has a volume of 216 cm³ and is cube-shaped. What is the side length?
- 2. A builder is constructing cubic storage boxes, each with a volume of 1000 cm³. What is the side length?
- 3. A factory produces cubical sugar cubes with a volume of 64 cm³. What is the length of each side?
- 4. A swimming pool is cube-shaped and holds 8m3 of water. What is the length of one side?
- 5. A company is designing a cube-based product with a volume of 343 cm³. What is the side length?
- 6. A cubic building has a total volume of 512 m³. What is the length of each edge?
- 7. A child builds a 3 × 3 × 3 cube using smaller blocks. How many blocks are in total?
- 8. A dice has a volume of 125 cm3. What is the side length?
- 9. A cubic water tank holds 729 litres of water. What is the length of one side?
- 10. A shop sells cubic candles with a volume of 1m3. What is the side length?

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Practice Questions

- 1. 27
- 2. 4
- 3. 64
- 4. 3
- 5. 1, 8, 27, 64, 125, 216, 343, 512, 729, 1000
- 6. 125
- 7.8
- 8. $35(2^3 = 8, 3^3 = 27, 8 + 27 = 35)$
- 9. 1000
- 10. 5

Scenario Questions

- 1. 6 cm
- 2. 10 cm
- 3. 4 cm
- 4. 2 m
- 5. 7 cm
- 6.8 m
- 7. 27 blocks
- 8. 5 cm
- 9. 9 m
- 10. 1 m