

Section A: Knowledge and Comprehension (Questions 1–5)

1. State the standard formula used to calculate the volume of a cuboid. (1 mark)
Answer: Volume= _____
2. State the standard unit of measurement used for the volume of small 3D objects. (1 mark)
Answer: _____
3. A cube has a length, width, and height of 3 cm each. Calculate its volume. (1 mark)
Answer: _____ cm³
4. A cuboid has a length of 5 cm, a width of 2 cm, and a height of 4 cm. Calculate its volume. (1 mark)
Answer: _____ cm³
5. True or False: Volume measures the flat 2D area of a surface. (1 mark)
Answer: _____

Section B: Application, Analysis, and Synthesis (Questions 6–10)

6. A rectangular fish tank measures 30 cm long, 20 cm wide, and 25 cm high. Calculate its total volume in cm³. (2 marks)
Answer: _____ cm³
7. A toy storage box in the shape of a cuboid has a volume of 1200 cm³. If its length is 20 cm and its width is 10 cm, calculate its height. (2 marks)
Answer: _____ cm
8. A brick is 24 cm long, 12 cm wide, and 6 cm high. Calculate the total volume of 2 identical bricks stacked together. (2 marks)
Answer: _____ cm³
9. Design challenge: A student wants to build a cuboid using unit cubes with a total volume of 36 cm³. If the height is fixed at 2 cm and the width is 3 cm, calculate the required length. (2 marks)
Answer: _____ cm
10. A swimming pool measures 10 m long, 4 m wide, and 2 m deep. Calculate its volume in cubic metres (m³). (2 marks)
Answer: _____ m³