

# CUBE

In geometry, a cube meaning is a three-dimensional solid shape consisting of six faces or six sides and three meetings at all its vertices. A cube is a 3D figure with six square faces, eight vertices, and a total of twelve edges. It is an effective shape and has the necessary importance and importance in geometry.

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**Q1: How many edges does a cube have?**

- A: 4
  - B: 6
  - C: 8
  - D: 12
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**Q2: What is the surface area of a cube with an edge length 'a'?**

- A:  $4a^2$
  - B:  $6a^2$
  - C:  $8a^2$
  - D:  $12a^2$
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**Q3: What is the name for the line segment that connects two non-adjacent corners of a cube?**

- A: Diagonal
  - B: Hypotenuse
  - C: Radius
  - D: Diameter
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**Q4: What is the volume of the cube with a side length 'a'?**

- A:  $a^2$
  - B:  $2a$
  - C:  $a^3$
  - D:  $A^4$
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**Q5: What is the volume of a cube with an edge length of 4cm?**

- A: 64 cm
  - B:  $64 \text{ cm}^3$
  - C:  $64 \text{ cm}^2$
  - D:  $64^\circ$
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**Q6: How many corners does a cube have?**

- A: 8
  - B: 12
  - C: 6
  - D: 4
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**Q7: A cube has how many faces or sides in it?**

- A: 5
  - B: 9
  - C: 12
  - D: 6
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**Q8: What is a cube shape with unequal faces known as?**

- A: Cube
  - B: Square
  - C: Cuboid
  - D: Trapezoid
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**Q9: What is the surface area of a cube with a side length of 5cm?**

- A: 150 cm
  - B: 150 cm<sup>2</sup>
  - C: 150 cm<sup>3</sup>
  - D: 150 cm<sup>4</sup>
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**Q10: Identify the Cubical Shapes**

- A: Dice
  - B: Box
  - C: Building Blocks
  - D: All of these
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## Answers

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**Q1:** D - 12

**Q2:** B -  $6a^2$

**Q3:** A - Diagonal

**Q4:** C -  $a^3$

**Q5:** B -  $64 \text{ cm}^3$

**Q6:** A - 8

**Q7:** D - 6

**Q8:** C - Cuboid

**Q9:** B -  $150 \text{ cm}^2$

**Q10:** D - All of these