

A cone is a particular shape formed by using a set of line segments or particular lines that can connect a common point called a vertex or Apex point to all the points of a circular base. The distance from the cone's vertex to its base is known as the height of the cone. A cone can be expressed as a threedimensional shape by nature.

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Q1: What is the formula to find the slant height '*l*' of a cone?

A: $\ell = \sqrt{(r^2 + h)}$ B: $\ell = \sqrt{(r^2 - h)}$ C: $\ell = \sqrt{(r^2 + h^2)}$ D: $\ell = \sqrt{(r - h)}$

Q2: What is the ratio of the volume of a cone to the volume of a cylinder with the same base and height?

A: 1:1

B: 1:2

C: 1:3

D: 1:4

Q3: What is the formula for calculating the lateral surface area of a cone?

A: A = πr² B: A = πr C: A = πr*≹* D: A = 2πrh

Q4: What is the Formula for the Total Surface Area of a Cone?

A: TSA = $\pi r (r + l)$ B: TSA = $\pi r (r + l)^2$ C: TSA = $\pi r (r + r)$ D: TSA = $\pi r (r + l)^3$

Q5: What is the Formula for the Volume of a Cone?

A: V = $(\frac{1}{3})\pi$ B: V = $(\frac{1}{3})\pi r^2 h$ C: V = $(\frac{1}{3})\pi r^2$ D: V = $(\frac{1}{3})\pi r$



Q6: Calculate the Volume of a Cone with a Radius of 3 cm and Height of 7 cm

A: 66 cm B: 66 cm² C: 66 cm³ D: 66 cm⁴

Q7: Calculate the Surface Area of a Cone with a Radius of 7 cm and a Slant Height of 3 cm

A: 250 cm B: 250 cm² C: 220 cm D: 220 cm²

Q8: How to Calculate Volume of Cone when Height and Diameter Given?

A: V = $(1/12)\pi d^2h$ B: V = $(1/12)d^2h$ C: V = $(1/12)\pi d^2$ D: V = $(1/12)\pi d$

Q9: Calculate the Volume of a Cone with a diameter of 7 cm and Height of 12 cm

A: 154 cm B: 154 cm³ C: 154 cm² D: None of these

Q10: Calculate the Lateral Surface Area of a Cone with a Radius of 10 cm and a Slant Height of 5 cm

A: 157 cm B: 157 cm³ C: 157 cm⁴ D: 157 cm²

https://www.edulyte.com/maths/cone

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Answers

Q1: C - ℓ = √(r² + h²)

- **Q2:** C 1:3
- **Q3:** C A = πrℓ
- **Q4:** A TSA = πr (r + l)
- **Q5:** B V = (¹/₃)πr²h
- **Q6:** C 66 cm³
- **Q7:** D 220 cm²
- **Q8:** A V = (1/12)πd²h
- **Q9:** B 154 cm³
- Q10: D 157 cm²