

CYLINDER

The cylinders definition is a three-dimensional shape. It has two parallel circular bases, and the joining of the shape is a curved safe. In geometry, the center of the circular bases overlaps each other, which helps to form a right cylinder. The line segment joining the two centers of the cylinder is the axis, and it denotes the height of the cylinder. A cylinder is a perfect 3D geometrical shape, a prism with a circle in its base. A cylinder is a perfectly upright shape with special structures in it.

Read more





Q1:	What is the volume of a cylinder	er with a radius	'r' and height	'h' if 'r'
= 5	cm and 'h' = 10 cm?			

A: 50 cm³ B: 100 cm³ C: 250 cm³

D: 785.71 cm³

Q2: If the radius of a cylinder is doubled while keeping the height constant, how does the volume change?

A: It becomes four times larger.

B: It becomes twice as large.

C: It remains the same.

D: It becomes half as large.

Q3: How many edges does a cylinder have?

A: 2

B: 4

C: 6

D: 8

Q4: Identify the formula for calculating the surface area of a cylinder

A: 2πr² h×r

B: 2πr (h+r)

 $C: h + r^2h$

D: 2hr2

Q5: Identify the formula for calculating the volume of a cylinder

A: πr

B: πr²

C: πr²h

D: Πr²2h



Q6: What are the units to express the volume of a cylinder?

A: Single units

B: Square units

C: No units

D: Cubic units

Q7: What are the units to express the surface area of a cylinder?

A: Square units

B: Single units

C: Cubic units

D: No units

Q8: What is the surface area of a cylinder with a radius 'r' and height 'h' if 'r' = 15 cm and 'h' = 30 cm?

A: 4041 cm²

B: 4242.86 cm²

C: 4242.86 cm³

D: 4041 cm³

Q9: What is the volume of a cylinder with a radius 'r' and height 'h' if 'r' = 3 cm and 'h' = 12 cm?

A: 344.54 cm²

B: 339.43 cm²

C: 339.43 cm³

D: 344.54 cm²

Q10: Calculate the curved surface area of a Cylinder with a radius of 5 cm

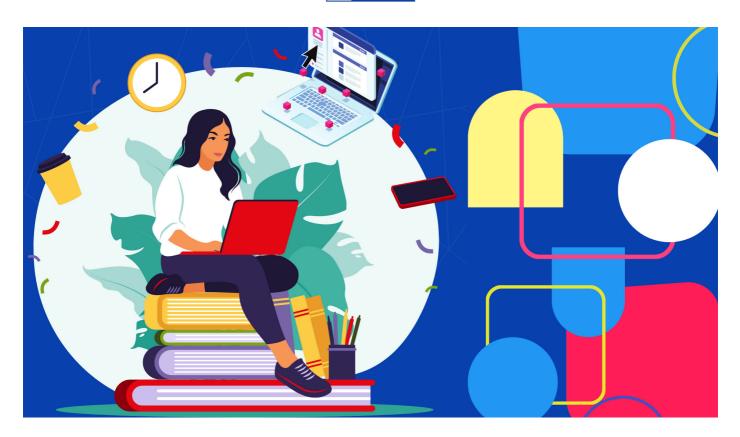
A: 31.43 cm

B: 30.54 cm

C: 33.43 cm

D: 54.67 cm





Answers

Q1: D - 785.71 cm³

Q2: A - It becomes four times larger.

Q3: A - 2

Q4: B - $2\pi r$ (h+r)

Q5: C - $\pi r^2 h$

Q6: D - Cubic units

Q7: A - Square units

Q8: B - 4242.86 cm²

Q9: C - 339.43 cm³

Q10: A - 31.43 cm