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SURFACE AREA & VOLUME WORKSHEET

1. The sum of all the areas of 3d shape is called _____ area.
2. Find the volume of the cube if its edge measures $4\sqrt{4}$ units.
3. Calculate the total surface area of the cube whose edge is 2 m.
 - a. 34 sq. m
 - b. 24 sq. m
 - c. 44 sq. m
 - d. 54 sq. m
4. The volume of a sphere of radius 3 units is 268.08 units^3 .
 - a. True
 - b. False
5. The total surface area of a cylindrical water bottle is 747.69 unit^2 with a height of 10 units. Find its base radius?



6. The edge of a cubical room is 3.5 m. The inner walls need to be painted (inclusive of windows and doors). Find the cost of painting if it tasks \$5 per square meter.
7. Find the cost of digging a cubical pit that is 6m broad, 9m long, and 4m deep at the rate of \$.40 per m^3 .
8. Find the volume of the right circular cone with a radius of 6 units and a height of 7units.
9. The floor perimeter of a rectangular room is 150 m. Its height is 5 m. What is the amount to be spent to paint the walls of the room at the rate of \$2 per square meter? (Inclusive of doors and windows).
10. The radius and height of a cylinder are equal to the radius and height of a cone, and then calculate the ratio of the volume of the cone to the volume of the cylinder.

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Why choose Cuemath?

"Cuemath is a valuable addition to our family. We love solving puzzle cards. My daughter is now visualizing maths and solving problems effectively!"

- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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**ANSWERS**

1)	Surface.
2)	512 sq. units
3)	b. 24 sq. m
4)	True
5)	7 units
6)	\$ 367.5
7)	\$ 86.4
8)	263.89 units^3
9)	\$1500
10)	1:3