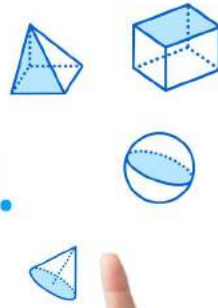


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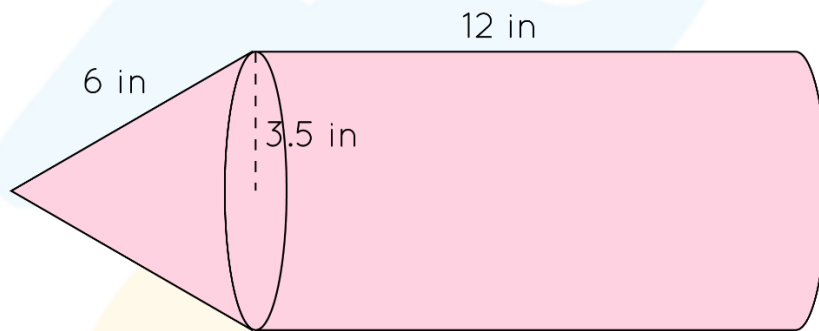
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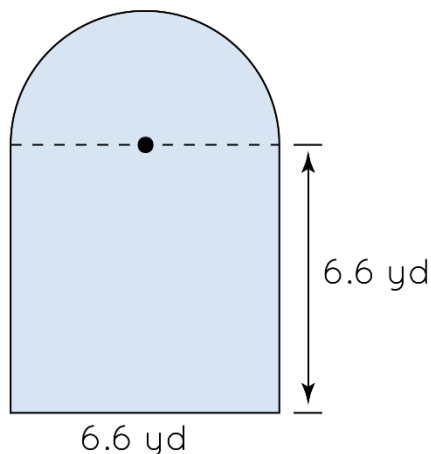
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Area of Composite Figures Worksheets 7th Grade

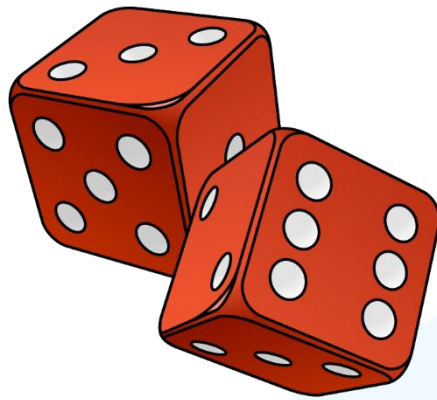
- 1) The sum of all the areas of all the shapes that cover the object is called its _____ area.
- 2) Calculate the total surface area of the three cubes joined together and the edge of one cube is 1 m.
- 3) How many identical square surfaces are there in a cube?
- 4) Determine the lateral surface area of the cylinder in the following composite shape.



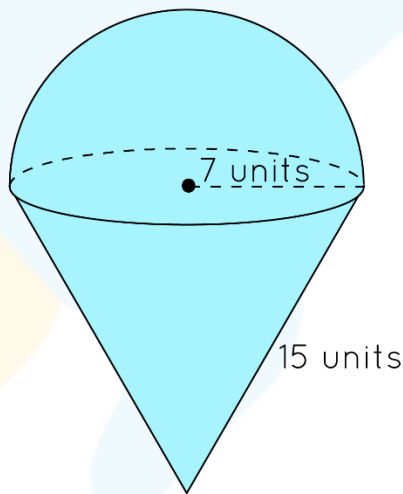
- 5) Noah constructed a cubical box and kept six cubes inside the box. The total surface area of a cubical box is 576 sq. in. What is the length of a small cube edge?



- 6) The total surface area of a cubical die is 24 sq. units. Find the total total surface area of a cuboid made by two cubes?



- 7) Choose the correct option for the lateral surface area of the cone in the given shape.



- a) 637.42 sq. units
b) 329.86 sq. units
c) 367.42 sq. units
d) 673.42 sq. units
- 8) The edge of a cubical room is 3 m. The inner walls are to be painted (inclusive of windows and doors). Find the expenditure if two identical rooms have to be painted at the rate of \$5 per square metre.

- 9) An open cylindrical tank of radius 14 m and height 3 m is mounted on the mouth of a hemisphere made from a sheet of metal. The total sheet of metal is required?
- 10) The height of a cylinder is 15 cm. and curved surface area is 660 sq. cm. Find the radius of the cylinder and the surface area of two spheres if they will be mounted on two faces of a cylinder.



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- Barbara Cabrera

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**ANSWERS**

1)	Surface
2)	16 m^2
3)	six
4)	263.89 in^2
5)	4 in.
6)	40 sq. units

7)	b) 329.86 sq. units
8)	\$540
9)	1495.39 m^2
10)	R = 3.5 m Surface area of two spheres 153.93 m^2

FUN FACT

1. In the 7th century CE, Brahmagupta developed a formula, now known as Brahmagupta's formula, for the area of a cyclic [quadrilateral](#)
2. The formula to calculate the area of a [triangle](#) using half base height formula was given by the Indian mathematician Aryabhata in 499.

