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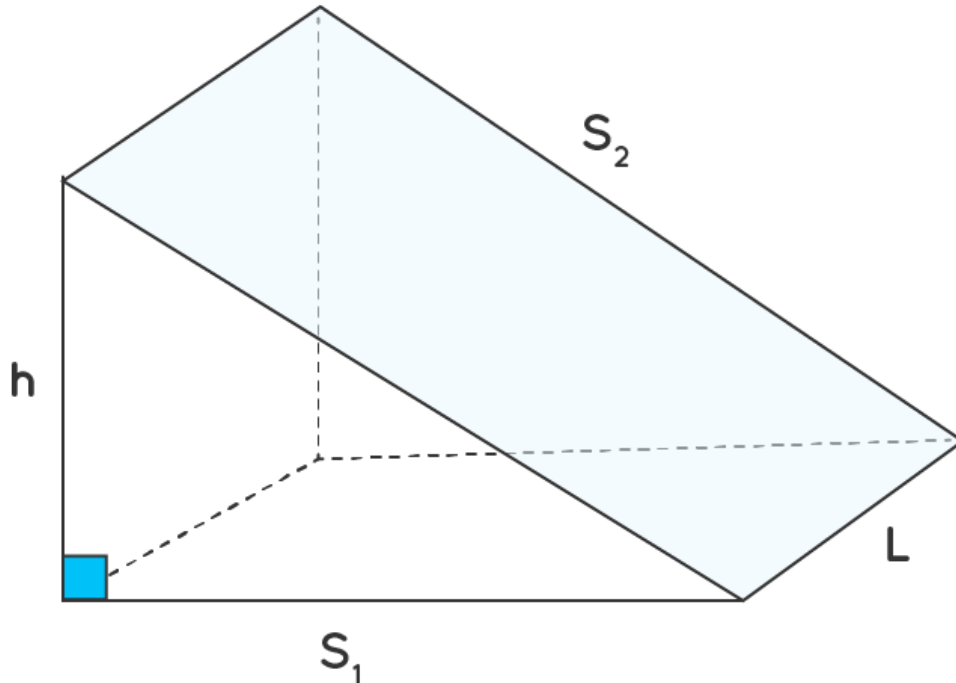
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SURFACE AREA & VOLUME WORKSHEET

Q.1 The surface area of a given triangular prism is _____



Q.2 Find the length of the diagonal of a cube having a volume of 24.06 cubic units.

Q.3 Determine the surface area of a given equilateral triangular prism if the side of a triangular face is 10m and its length is 8m?

Q.4 The capacity of a tank of dimensions 20m x 40m x 50m is 4000 liters.

- a. True
- b. False

Q.5 Find the surface area of a cylindrical beaker whose radius is 3 units and its height is 8 units.(use $\pi = 3.14$)

Q.6 Find the cost of digging a cylindrical pit having a radius of 5 m and height of 6 m at the rate of \$10 per m^3 .

Q.7 If each edge of a cube is reduced by 25%, find the percentage decrease in the volume of the cube?

- (a) 33.8%
- (b) 50%
- (c) 57.81%
- (d) 72.8%

Q.8 A tank is in the shape of a cylinder with height 12 ft and radius of 6 ft. The curved wall of the tank is to be painted. Find the surface area to be painted (Note; exclude the top and base area of a tank).

Q.9 The water flows at a speed of 0.8m/sec from a pipe of a radius of 1.5 meters. Find the amount of water that flows out from the pipe in 20 minutes.

Q.10 A toy is composed of a cube with a triangular prism on its top. If the total surface area of the house is 567sq. units and the surface area of the cube is 489 sq. units, what is the remaining surface area of the triangular prism?

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- 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)	$bh + L(S_1 + S_2 + h)$
2)	5 units
3)	326.6 sq. m
4)	False
5)	207.34 sq. units
6)	\$471.23
7)	c. 57.81%
8)	452.38 sq. ft
9)	6785.84 m^3
10)	78 sq. units