

In #1-#4 find the volume and surface area of each shape

1. A square based pyramid with height 12 *in* and side length 18 *in*.

B =

L.A. =

Volume =

S.A. =

2. A hexagonal based pyramid with side 10 *ft* and height of 12 *ft*.

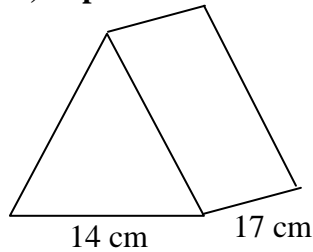
B =

L.A. =

Volume =

S.A. =

3. A regular (equilateral) triangular prism, as pictured.



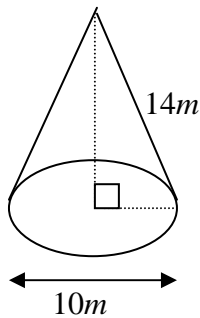
B =

L.A. =

Volume =

S.A. =

4. The cone, as pictured.



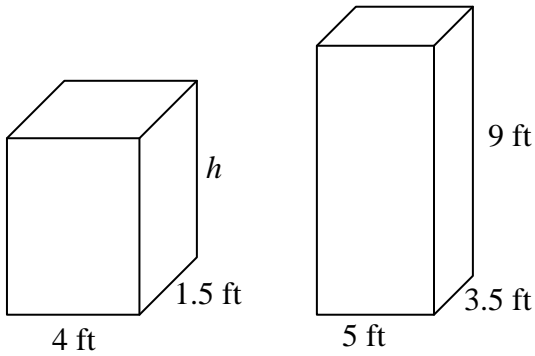
B =

L.A. =

Volume =

S.A. =

5. Given that the two solids have the same volume, find the missing height.



6. How tall must a cylindrical tank be in order to hold 8,000 liters if the diameter of the tank is 150 cm. (Hint: 1 liter=1000 cm^3)

7. A cylinder with a height of 23 meters and a diameter of 16 meters.

B =

L.A. =

Volume =

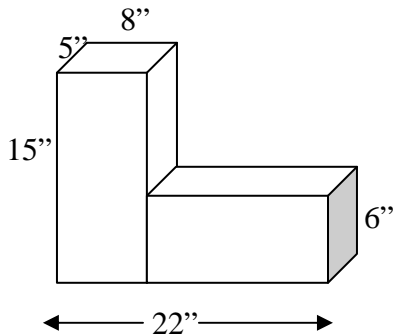
S.A. =

8. A sphere with radius 14 inches.

Volume =

S.A. =

9.



Volume =

S.A. =