

1. Volume Formulas. Write out each formula and what each variable stands for

Prism: $V =$

Cylinder: $V =$

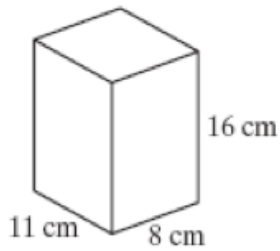
Pyramid: $V =$

Sphere: $V =$

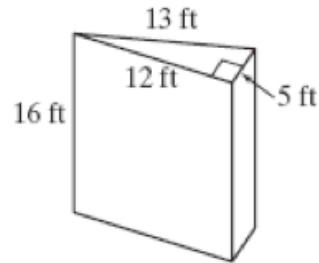
Cone: $V =$

For the following problem, find the surface area and/or volume of the figures. Write out each formula you will be using. (Remember for volume formulas find the area of the base (B) first then plug it into the rest of the formulas)

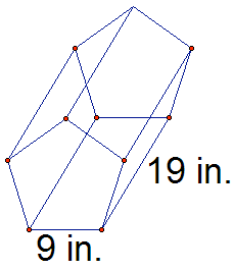
2. SA =
V =



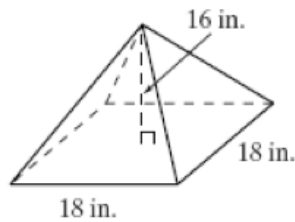
3. V =



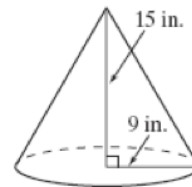
4. V =



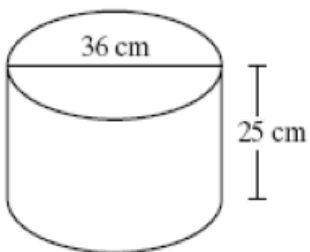
5. V =



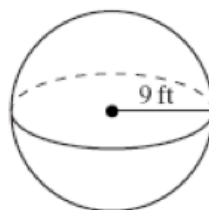
6. V =



7. V =
SA =

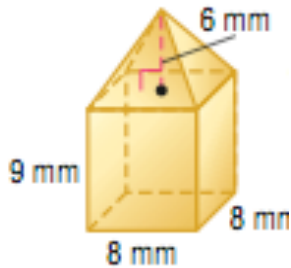


8. SA =
V =

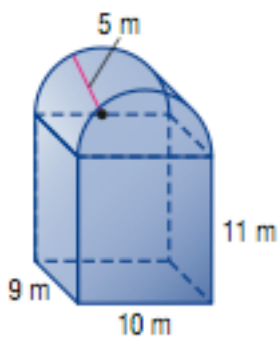


9. Explain the difference between surface area (SA) and volume(V)

10. V=



11. V=



(Hint: The shape on top of the prism is a half cylinder)

12. The dimensions of a prism are multiplied by $\frac{3}{4}$. Describe the effects on the volume.

13. The radius of a sphere is multiplied by 15. Describe the effect on the volume.

14. The surface area of a sphere is 256π in². What is the volume of that sphere?

15. The volume of a sphere is $2,304\pi$ m³. What is the surface area of the sphere.

16. V=

