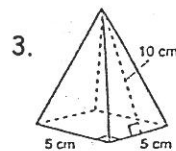
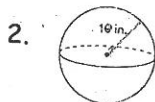
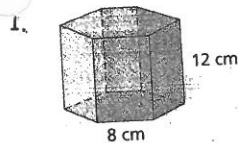


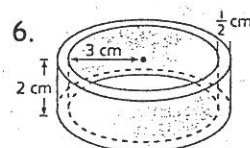
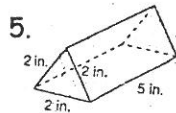
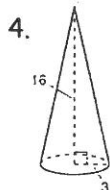
#1-6, Find the surface area and volume for each object.



SA=  
Vol=

SA=  
Vol=

SA=  
Vol=

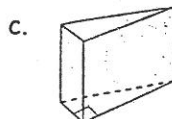
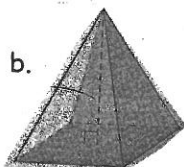


SA=  
Vol=

SA=  
Vol=

SA=  
Vol=

7. Classify each object (2) ways



8. A polyhedron has 16 faces and 32 edges. How many vertices?

9. Find the radius of a sphere with a surface area of  $14,102.61 \text{ ft}^2$ .

10. Find the height of a rectangular pyramid with a base 3 in. wide and 7 inches long if the volume is  $91 \text{ cm}^3$ .

11. Find the slant height of a cone with a radius of 3.25 in. and a surface area of  $211.86 \text{ in}^2$ .

12. A fish tank 10" by 14" by 12" high is home to a fat shrimp named Jumbo. When Jumbo is taken out for some fresh air the water level drops by  $\frac{1}{3}$  inch. What is Jumbo's volume?

13. A block of ice placed in an ice chest containing water causes the water to rise 4 cm. The base of the ice chest is  $35 \times 50 \text{ cm}$  and it is 30 cm tall. When ice floats in water, one-eighth of its volume floats above the water level and seven-eighths beneath. What is the total volume of the ice?

14. Describe the effect of each change on the given measurement...

a. The surface area of a prism if the dimensions are tripled.

b. The volume of a pyramid if the dimensions are halved.

c. The volume of a sphere if the radius is multiplied by 5.