

# Chapter 10 - 3-D (polyhedron/Vol/SA)

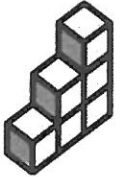
Last time! \_\_\_\_\_

#1-4, Sketch each object and then find the volume.

1. A cylinder with a diameter of 14 cm and a height of 3 cm.
2. An equilateral triangular prism with a height of 20 cm and length of triangle's side is 4 cm.
3. A 6 x 6 x 6 ft. cube with a hole bored through. The hole is 2 x 3 and 6 ft. tall.
4. A hemisphere attached to a cone. The radius of each is 5 in. The slant height of cone is 15 in.

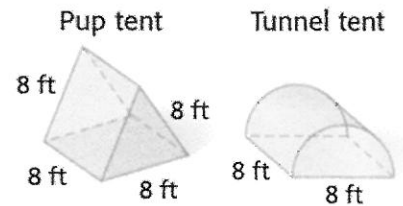
#5-8, Find the surface area for each object.

5. A square pyramid with base perimeter of 20 cm and a lateral edge of 11 in.
6. A sphere with 18 cm. diameter.
7. This building is made with 1 inch cubes.

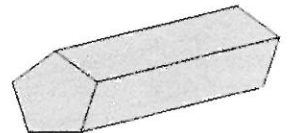


8. Mr. Fulton is thinking of starting up a tent-making business... He has two basic designs – the 'Pup' and the 'Tunnel'.

- a. Which tent has more space inside? Why?
- b. Which tent requires more fabric to be made? Why?



9. Count the number of faces, edges and vertices on object. Double check your numbers using Euler's Formula.



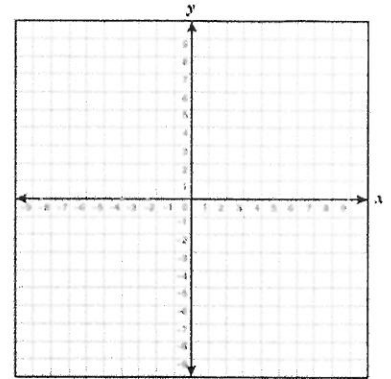
10. The dimensions of a pyramid are multiplied by 4. What will be the effect on...

- a. The perimeter of the base of pyramid: \_\_\_\_\_p
- b. The surface area \_\_\_\_\_
- c. the volume \_\_\_\_\_

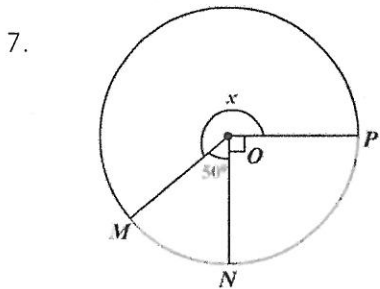
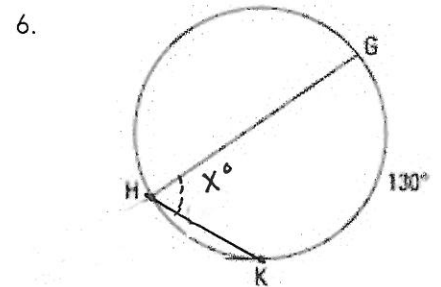
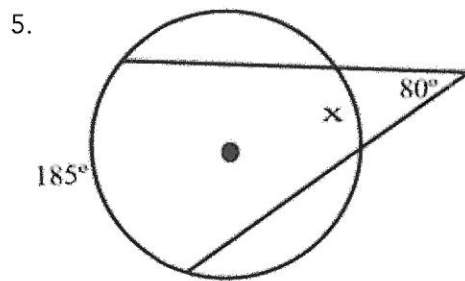
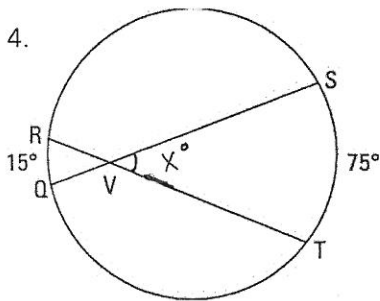
# Chapter 11 - Circles

- Write the equation of  $\odot A$  with center  $(7, -3)$  and radius 5
- Write the equation of  $\odot B$  that passes through  $(-2, -2)$  and that has a center  $B(-2, 1)$

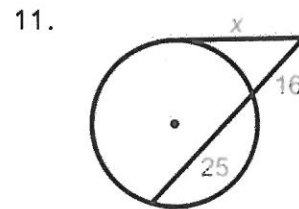
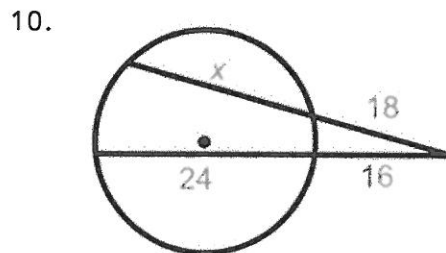
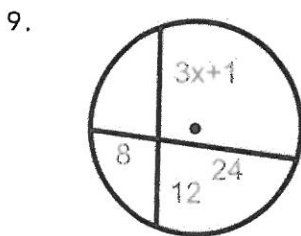
3. Graph the circle from the following equation:  $(x-4)^2 + (y+3)^2 = 16$



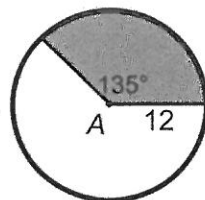
#4-7, Solve for the variable. (Angles)



#9-10, Solve for variables (Segments)



12. Find the area of sector



13. Find  $m\angle AOB$

