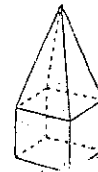


Mrs. Brown's Chapter 10 Practice Test

1. Draw a pentahedron
2. If a polyhedron has 18 vertices and 31 edges, how many faces will it have?

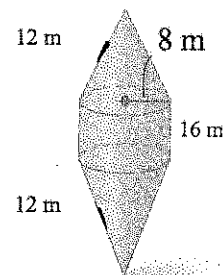
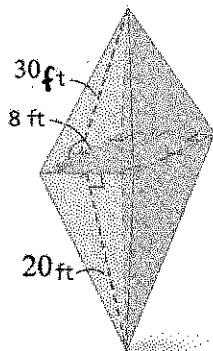
3. How many vertices, edges and faces for the object at right?



#4-8, Draw a sketch to help answer the question. Double check...is it surface area or volume question?

4. Find the surface area of a cube if the perimeter of its base is 20 cm.
5. Find the surface area of a cone with a radius of 7ft. and a height of 10ft.
6. Find the surface area for a regular triangular prism (which means the base must be an equilateral) if the length of the bases is 5 ft. and the height is 6 ft.
7. Find the volume of a regular pentagonal prism if the base has side lengths of 8 mm and the object's height is 15 mm.
8. The packaging for a new beach ball claims it will have a diameter of 13 cm. when fully inflated. What will its volume be when fully inflated?

9. Find the volume for the composite solid. (top slant height = 30', bottom = 20')
10. Find the surface area for the composite solid. (top & bottom slant height = 12 m)



11. A triangular pyramid has a volume of 180 cubic feet and a height of 12 ft. Find the *length of the triangle's base* if the height to that side of the base is 6 ft. (Let's say the base is a right triangle with one leg 6 ft and the other leg unknown)
12. The volume of a sphere is 1426.75 cm^3 . What is its surface area?