

**Geometry**  
**WS: Solids 1Vocab**  
**Part 1** Vocabulary

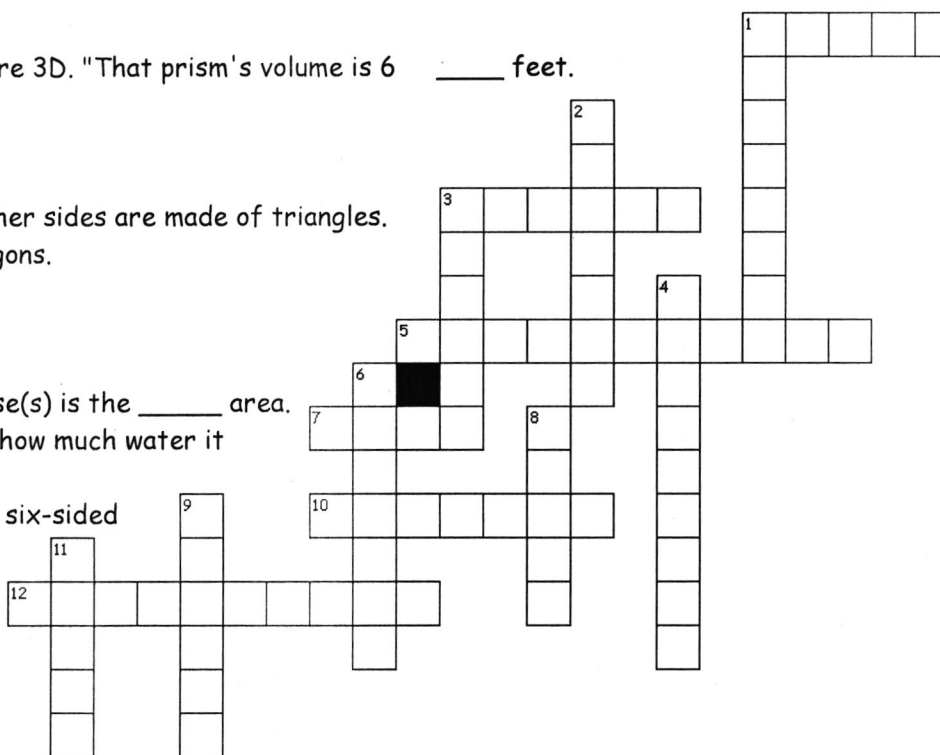
Name \_\_\_\_\_  
 Period \_\_\_\_\_

**Across**

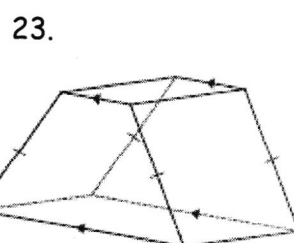
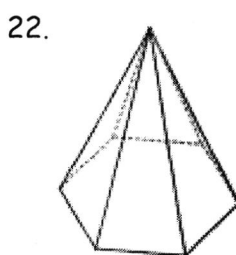
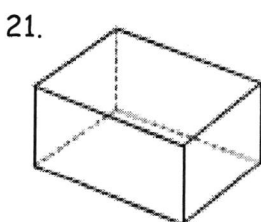
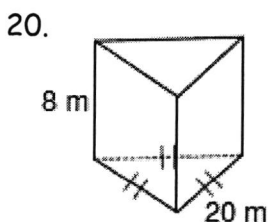
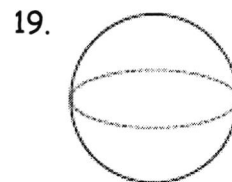
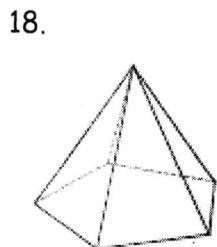
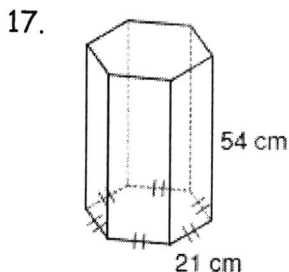
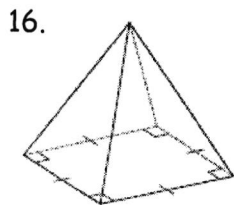
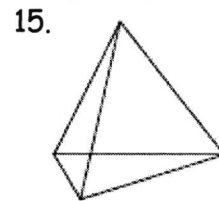
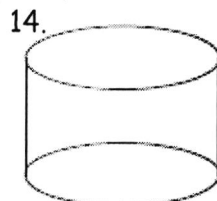
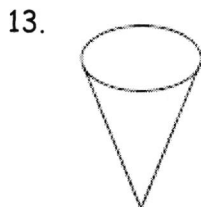
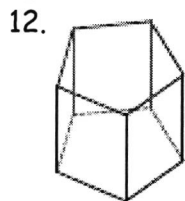
1. The type of units that are used to measure 3D. "That prism's volume is 6 \_\_\_\_ feet.
3. The "corner" of a 3 dimensional object.
5. the area of all the outside of a solid.
7. A circular pyramid.
10. A polyhedron with 1 base, and all the other sides are made of triangles.
12. A 3-dimensional object made up of polygons.

**Down**

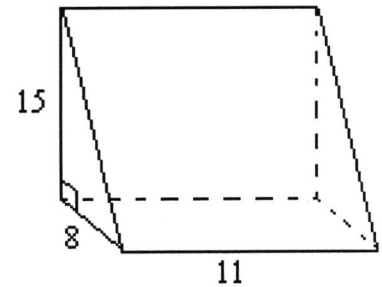
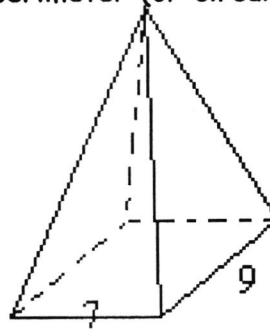
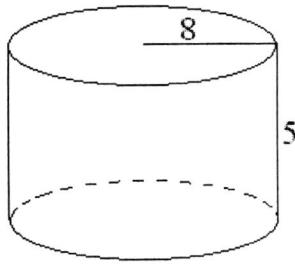
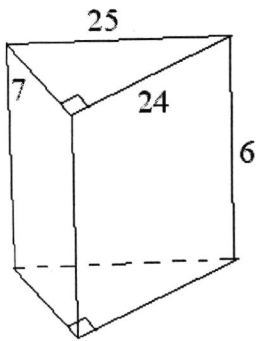
1. Like a PRISM, but the bases are circles.
2. The area of a solid NOT counting the base(s) is the \_\_\_\_ area.
3. How much "space" is inside an object, or how much water it will hold if hollow.
4. If the base of a pyramid is made up of a six-sided polygon, we call the solid a \_\_\_\_ pyramid.
6. A 2-dimensional "shape" that is closed and has straight sides.
8. A 3D shape in which 2 bases are connected by rectangles.
9. The unique solid with no sides, edges or vertices. (a ball).
11. Any 3-dimensional object.



**Part 2** Solid identification. Name each of the following shapes. Ex the first is a "pentagonal prism".



**Part 3 Basic Calculations.** Find the area and the perimeter (or circumference) of the base.

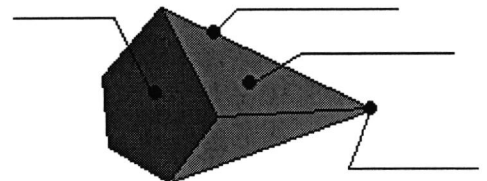
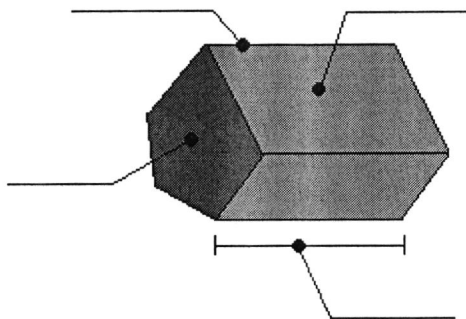


#### **PART 4** Parts of a solid

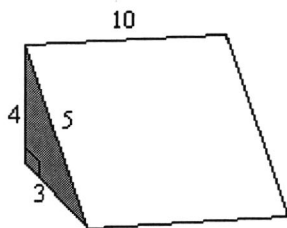
In each of the shapes given above, each of the shaded areas are called **BASES**.

5. How many bases does a **prism** have?
6. How many bases does a **pyramid** have?
7. How many bases does a **cylinder** have?
8. How many bases does a **cone** have?
9. What is the shape of the base in #1 & #2?
10. What is the shape of the base in #3 & #4?
11. The lines you drew into each shape are called **edges**. How many edges are there in #1 and #2?
12. Label each of the following in the following shapes (see pages 473-474, 484, & 491 for help)

Base  
Edge  
(lateral)Face  
Vertex  
Height



#### **PART 5** Finding values for a prism Shown here is a triangular prism



13. What is the shape of the base?
14. What is the area of the base?
15. What is the perimeter of the base?
16. What is the height of the prism?
17. SURFACE AREA:  $(\text{perimeter}) \times (\text{height}) + 2(\text{basearea})$
18. VOLUME:  $(\text{basearea}) \times (\text{height})$