Name: _____

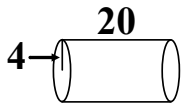
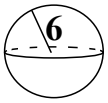
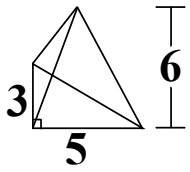
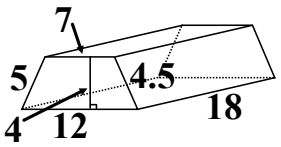
Information Needed to Solve for Volume

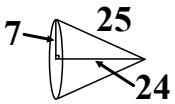
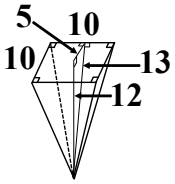
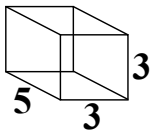
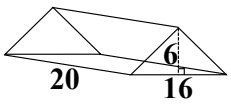
In order to determine three-dimensional volume, just like with two-dimensional area, you must first know what formulas you are using and be able to identify the information that you will need to plug into those formulas.

B = Area of **the Base** Figure (also represented with an A)
H = Height **of the 3-D** Figure (the distance from base shape to base shape on a prism or cylinder, or from base shape to the tip on a pyramid or cone)
l = slant height (the distance from the tip of a pyramid/cone *down the side* to the edge of the base)
r = radius of the circle

These parts on the figure are used to determine:
V = Volume

For each given figure, write the base area and volume formulas, and identify H (spheres won't have a Height). Then, determine base area (spheres won't have a base area) and use it to identify the volume of the given figure.

1.  Base Area Formula: Base Area:	H = _____ Volume Formula: Volume:	2.  Base Area Formula: Base Area:	H = _____ Volume Formula: Volume:
3.  Base Area Formula: Base Area:	H = _____ Volume Formula: Volume:	4.  Base Area Formula: Base Area:	H = _____ Volume Formula: Volume:

5.  Base Area Formula: Base Area:	*H* = _____ Volume Formula: Volume:	6.  Base Area Formula: Base Area:	*H* = _____ Volume Formula: Volume:
7.  Base Area Formula: Base Area:	*H* = _____ Volume Formula: Volume:	8.  Base Area Formula: Base Area:	*H* = _____ Volume Formula: Volume:
9.  Base Area Formula: Base Area:	*H* = _____ Volume Formula: Volume:	10.  Base Area Formula: Base Area:	*H* = _____ Volume Formula: Volume: