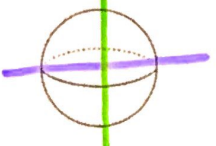


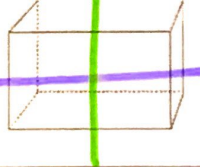



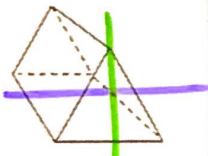


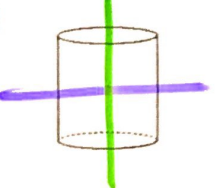


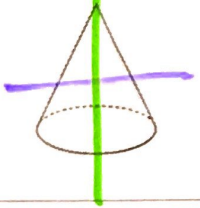


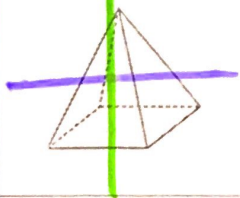


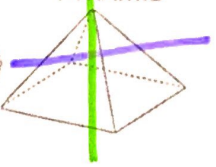


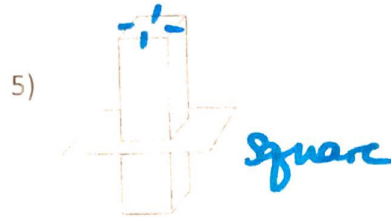


Draw the vertical and horizontal cross sections. The base side should always be facing DOWN.

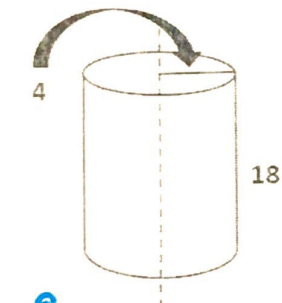
SHAPE	VERTICAL	HORIZONTAL
SPHERE 	 - circle	 - circle
RECTANGULAR PRISM 	 - square  - rectangle	 - rectangle
TRIANGULAR PRISM 	 - triangle	 - rectangle
CYLINDER 	 - rectangle	 - circle
CONE 	 - triangle	 - circle
SQUARE PYRAMID 	 - triangle	 - square
RECTANGULAR PYRAMID 	 - triangle	 - rectangle

Directions: Name the cross section.



Directions: Sketch a drawing of the two-dimensional cross section of each 3-D figure. Then, find the area of the cross section.

9) Given: Cylinder

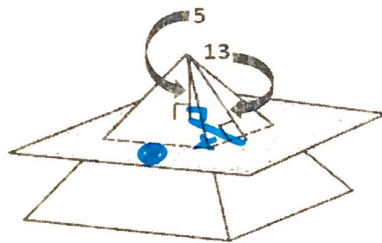


$$A = Bh$$

$$A = 18(8)$$

$$A = 144$$

10) Given: Square Pyramid



$$5^2 + x^2 = 13^2$$

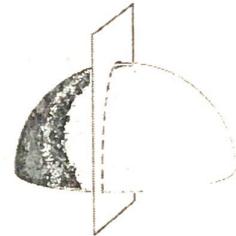
$$x^2 = 144$$

$$x = 12$$

$$12 \times 2 = 24$$

$$A = 576$$

11) Given: Radius of the Original Sphere = 10



$$A = \pi r^2$$

$$A = \pi 10^2$$

$$A = \frac{100\pi}{2} = 50\pi$$

12) Given: Cone with a Base Radius of 7.



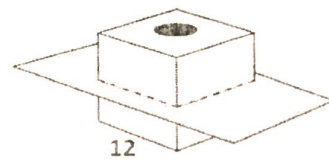
$$h^2 + 14^2 = 25^2$$

$$h = 24$$

$$A = \frac{1}{2}bh$$

$$A = (\frac{1}{2})(14)(24) = 168$$

13) Given: A cube & the diameter of the circle is $\frac{1}{3}$ the size of the cube side length.



omit