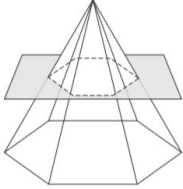
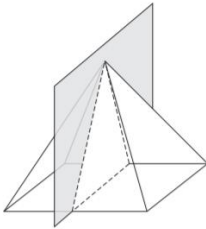


1. What is the name of the cross-section shown below?



\_\_\_\_\_

2. What is the name of the cross-section shown below?

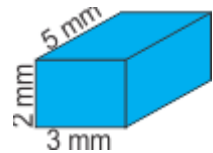


\_\_\_\_\_

3. What is the volume of a cube with a side length 3 in? Show your work.

\_\_\_\_\_

4. Find the volume of this figure. Show your work.

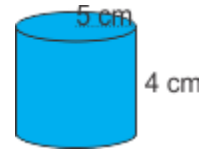


\_\_\_\_\_

5. What is the surface area of a cube with a side that measures 2 yd? Show your work.

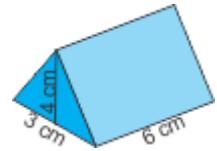
\_\_\_\_\_

6. What is the approximate volume of this cylinder? You may express your answer in terms of  $\pi$  or as a decimal. Just show your work!



\_\_\_\_\_

7. What is the volume of the triangular prism? Show your work.



\_\_\_\_\_

8. Find the volume of a cylinder if the height is 6 ft and the diameter of the base is also 6 ft.

\_\_\_\_\_

9. Find the surface area of a sphere whose radius is 12 cm. Show your work.

\_\_\_\_\_

10. A sphere has **diameter** of 8 feet. What is its volume, expressed in terms of  $\pi$ . Show your work.

A.  $V = \frac{64\pi}{3}$

B.  $V = \frac{256\pi}{3}$

C.  $V = \frac{2048\pi}{3}$

**BONUS** What is the diameter of a sphere whose surface area is  $100\pi \text{ cm}^2$ ?