
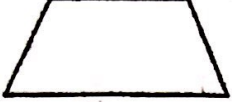
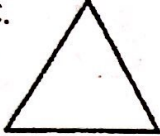
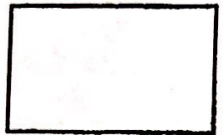
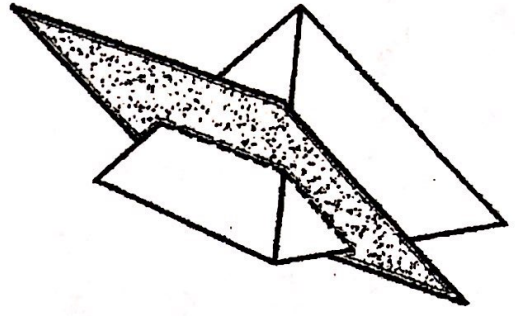

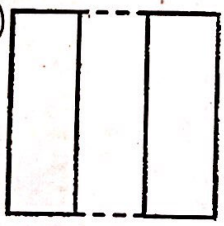
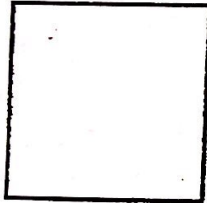
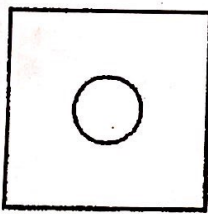


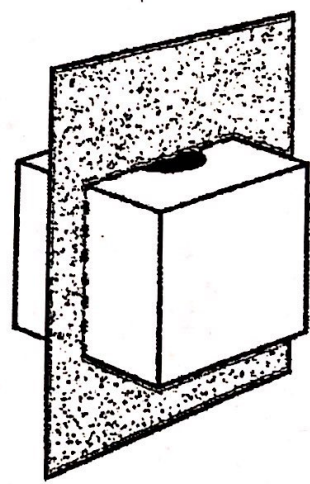
1. A square pyramid is cut along the shaded plane shown below. Which of the following is the cross-section of this solid?

- A. 
- B. 
- C. 
- D. 

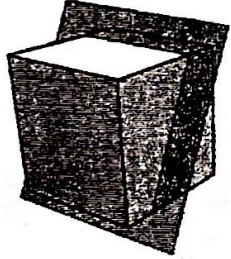



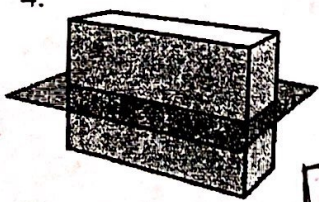
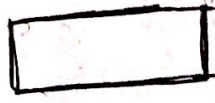
2. A cube with a cylinder cut from its center is cut along the plane shown below. Which of the following is the cross-section of this solid?

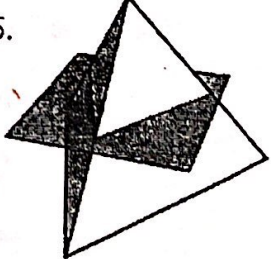

- A. 
- B. 
- C. 
- D. 

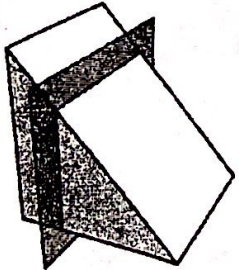



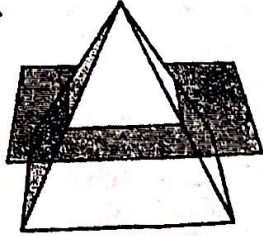

Determine the 2D shape created if the 3D shape were sliced as shown.

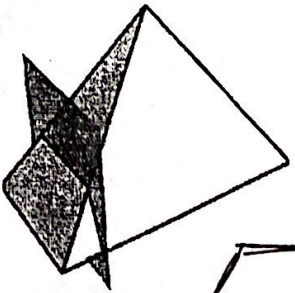
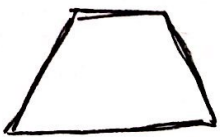
3.  

4.  

5.  

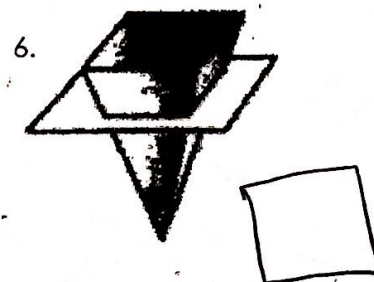
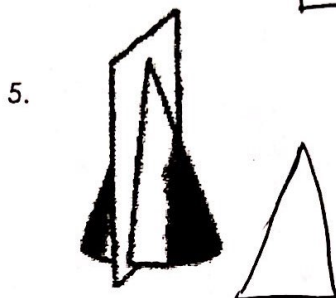
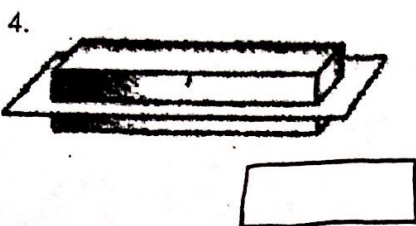
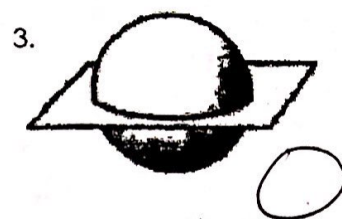
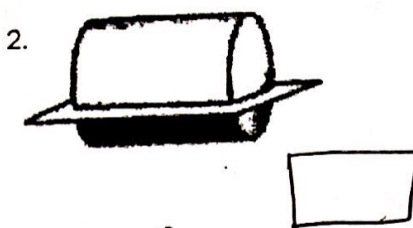
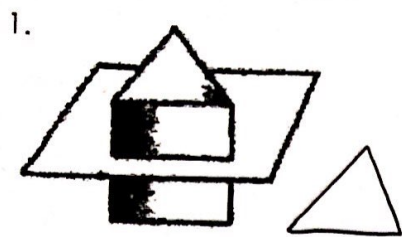
6.  

7.  

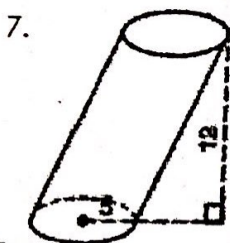
8.  

PRACTICE:

Name the cross section.



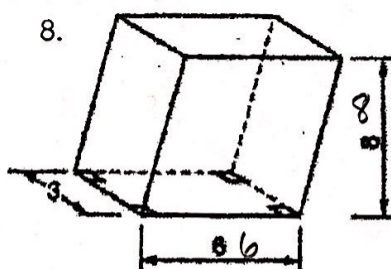
Find the volume of each oblique figure.



$$V = Bh$$

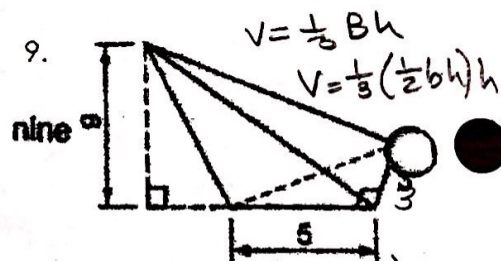
$$= \pi r^2 h$$

$$= \pi 5^2 \cdot 12 = \boxed{942.5 \text{ units}^3}$$



$$V = l \cdot w \cdot h$$

$$= 3 \cdot 6 \cdot 8 = \boxed{144 \text{ units}^3}$$



$$V = \frac{1}{3} Bh$$

$$= \frac{1}{3} (\frac{1}{2} b h) h$$

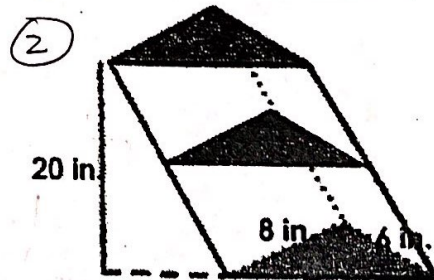
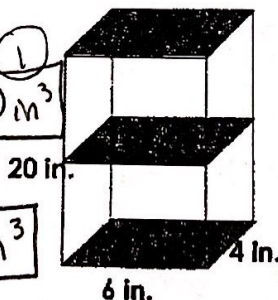
$$= \frac{1}{3} (\frac{1}{2} \cdot 5 \cdot 3) \cdot 9$$

$$V = \boxed{22.5 \text{ unit}^3}$$

10. Which figure has more volume?

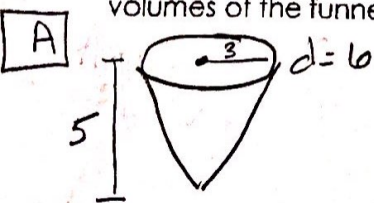
① $V = l \cdot w \cdot h = 6 \cdot 4 \cdot 20 = \boxed{480 \text{ m}^3}$

② $V = (\frac{1}{2} b \cdot h) h = \frac{1}{2} \cdot 8 \cdot 6 \cdot 20 = \boxed{480 \text{ m}^3}$



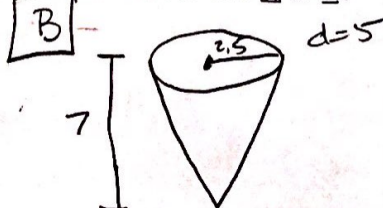
They have the same volume!

11. Collin is going to change the oil in his Jeep. He has two funnels. Δ has a diameter of 6 inches and is 5 inches deep. ∇ has a diameter of 5 inches but is 7 inches deep. He wants to use the funnel with the greatest volume to minimize the chance of spilling the oil. What are the volumes of the funnels? Which one should he use Δ or ∇ ?



$$V = \frac{1}{3} \pi r^2 h$$

$$V = \boxed{47.1 \text{ m}^3}$$



$$V = \frac{1}{3} \pi r^2 h$$

$$V = \boxed{45.8 \text{ m}^3}$$

Answer:
A has the most volume!