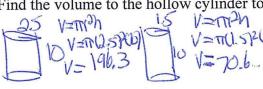


Date	
Date	
Geometry	

## Hollow Volume

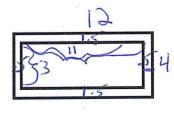
1. A hollow cylinder has a height of 10 inches, an outer diameter of 5 inches, and a thickness of 1 inch. Find the volume to the hollow cylinder to the nearest cubic inch.

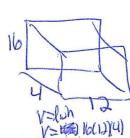


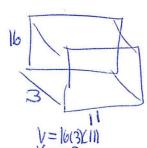




2. A hollow rectangular prism has a length of 12 cm, a width of 4 cm, and a height of 16 cm. Find the volume of the hollow rectangular prism to the nearest cubic centimeter.





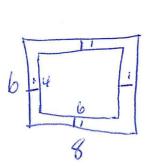


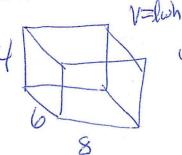


3. A hollow sphere has an outer diameter of 10 feet, and a thickness of 1.5 feet. Find the s an outer diameter of 10 feet, and a unconcess of sphere to the nearest tenth of a cubic foot.  $V = \frac{4}{3}\pi(3) \quad V = \frac{4}{3}\pi(3, 5)^3 - 179$  V = 533 V = 179 V = 179volume of the hollow sphere to the nearest tenth of a cubic foot.



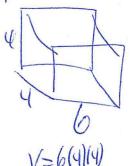
4. A hollow rectangular prism has a length of 8 meters, a width of 6 meters, and a height of 4 meters. Find the volume of the hollow rectangular prism to the nearest cubic meter.

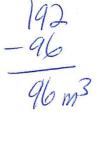


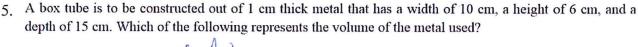


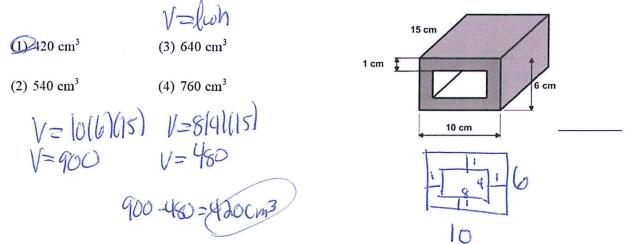
V=869141

V=192

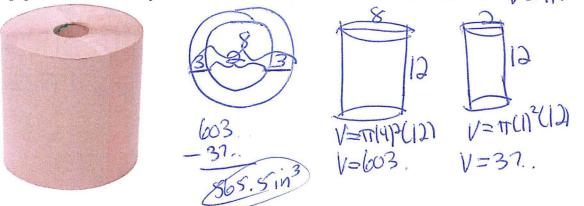








6. The paper towel roll shown below has a diameter of 8 inches and the paper has a thickness of 3 inches. If the height of the paper towel roll is 12 inches, what is the volume of the paper towels? Round your answer to the nearest tenth of a cubic inch.



7. A hollow metal pipe is in the shape of a rectangular prism that has a height of 12 cm. The length is 5 cm and the width is 2 cm. If the thickness is 0.5 cm all the way around, what is the volume of the metal?

