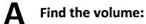
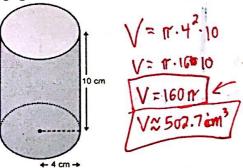
## Scavenger Hunt Review - Area and Volume

- Listed below are 14 problems for the scavenger hunt. You may start at whichever problem you want, but each answer leads to the next problem. Your last answer should lead back to your first problem.
- You may ask people next to you for help if you get stuck, but try not to rely on them too much you will have to
  do the quiz by yourself!
- There are no units listed on the answers because that could give something away, but you should still put units on your own answers.
- YOU MUST SHOW ALL WORK. If you need more room, attach a separate sheet of paper.
- Be aware most of the answers listed are rounded answers but a few of them are exact answers.

## **ORDER OF LETTERS:**

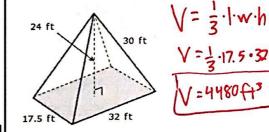
## AMCIHDGKBJLENE





733.0

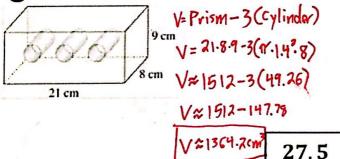
**B** Find the volume:



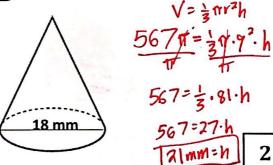
62.8

 $2304\pi$ 

Find the volume. Each hole has a radius of 1.4cm.

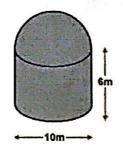


The volume is  $567\pi mm^3$ . Find the height.

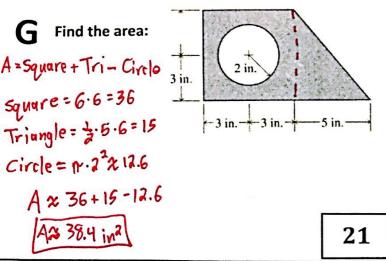


Find the volume: 14.0 cm 1

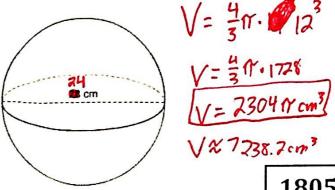
Find the volume:



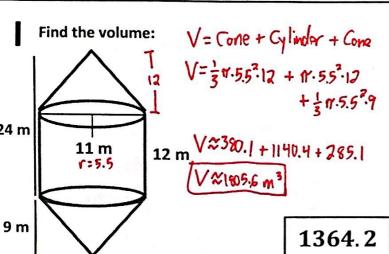
 $V = 17r^{2}h + \frac{1}{2}(\frac{4}{3}\pi r^{3})$   $V = 17 \cdot 5^{2} \cdot 6 + \frac{1}{2}(\frac{4}{3}\pi \cdot 5^{3})$   $V \approx 471.2 + \frac{1}{2}(673.6)$   $V \approx 471.2 + 2618$   $V \approx 471.2 + 2618$ 



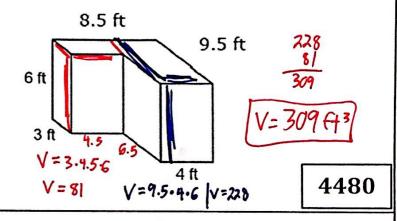
Н Find the volume:



1805.6



Find the volume:



A spherical snowball has a diameter of 6 centimeters. If it melts at a rate of 1.8 cubic centimeters per minute, how long would it take for the snowball to melt?

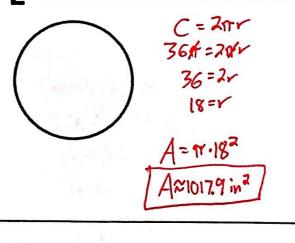
$$V = \frac{4}{5}\pi(3)^{3}$$

$$V \approx |13.1 \text{ cm}^{3}$$

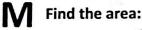
$$113.1 \div 1.8 \approx 62.8 \text{ min}$$

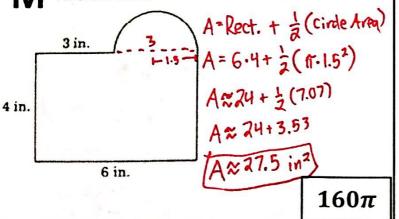
$$38.4$$

he circumference is  $36\pi$  in. Find the area.

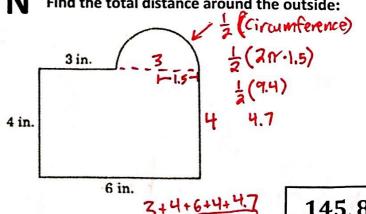


309





N Find the total distance around the outside:



3+4+6+4+4.7

145.8