

Name: \_\_\_\_\_

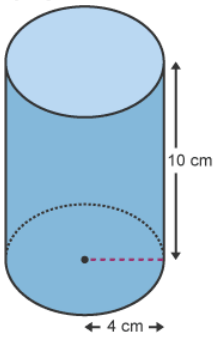
### Scavenger Hunt Review – Area and Volume

- 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.
- 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 – some of the answers are *exact* answers. If you can't find your rounded answer anywhere, check the exact answer too!

ORDER OF LETTERS:

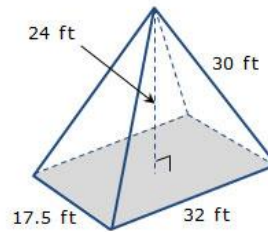
\_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

**A** Find the volume:



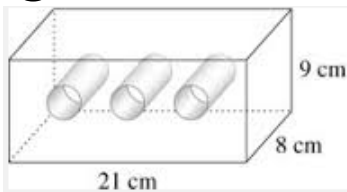
1364.2

**B** Find the volume:



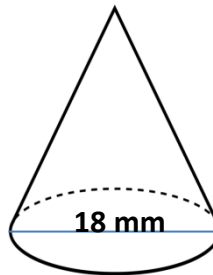
62.8

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



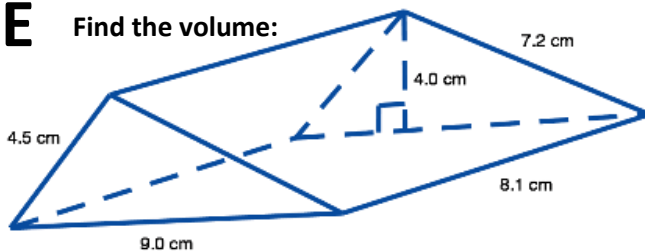
1647.2

**D** The volume is  $567\pi \text{ mm}^3$ . Find the height.



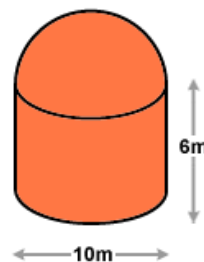
$2304\pi$

**E** Find the volume:



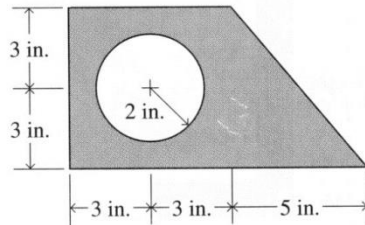
$160\pi$

**F** Find the volume. The top "dome" is a perfect hemisphere.



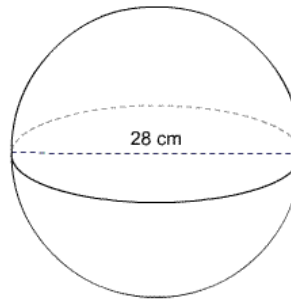
1017.9

**G** Find the area:



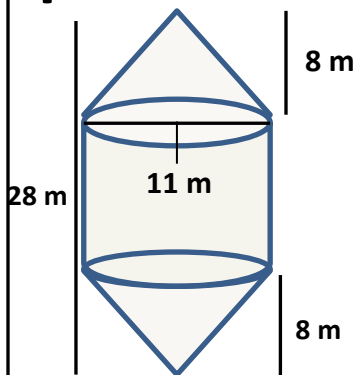
21

**H** Find the volume:



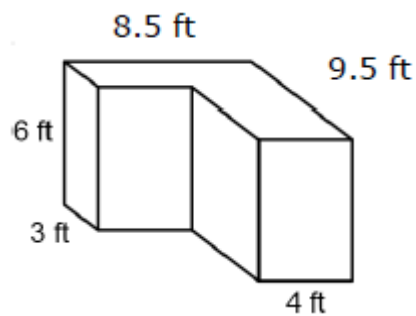
21.7

**I** Find the volume:



38.4

**J** Find the volume:

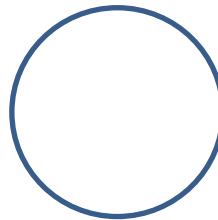


4480

**K** 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?

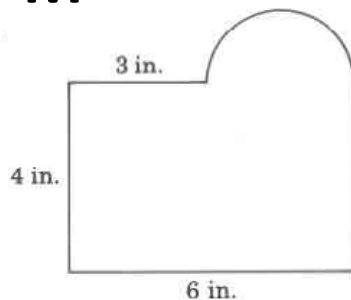
733.0

**L** The circumference is  $36\pi$  in. Find the area.



145.8

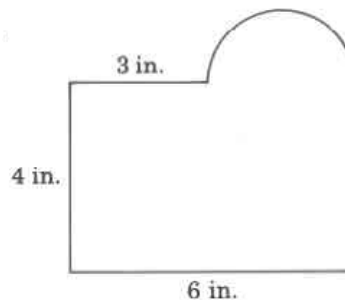
**M** Find the area:



309

**N** Find the total distance around the outside:

(Hint: the length of the curved part is half of the circumference!)



27.5