Volume Word Problems Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Adv Geometry Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Block \_\_\_\_\_\_\_

**For each problem:**

* **Draw and label a picture**
* **Show all work**
* **Round answers to the nearest hundredth.**
1. How much more air would be needed to fill a beach ball that is 20 inches in diameter than one that is 14 inches in diameter?
2. How many cubic inches of cereal can fit in a box that is 12 inches long, 18 inches tall and 2.5 inches wide?
3. How much water would fill a cone that has a circumference of 40 inches and a height of 18 inches?
4. How much oil would fill a can that has a 5 cm radius and is 15 cm tall?
5. The volume of a pyramid is 64 cubic feet. If the height of the pyramid is 5 feet, what is the area of the base?
6. Find the volume of a cone with a base radius of 6 meters and a slant height of 10 meters.
7. Find the radius of a cylinder with a volume of 72$π$ cubic inches and a height of 2 inches.

1. What are the dimensions of a box which will hold exactly 60 cubic meters of flour, but whose edge lengths are all less than 10 meters?