**Volume of Rectangular Prisms and Cylinders**

**SHOW ALL WORK**

1. The diameter of a cylindrical can of orange juice is 1.5 inches. The height of the can is 4.5 inches. Approximately how many cubic inches of juice will the can hold?

2. The height of a rectangular swimming pool is 5 feet and the pool is 15 feet long. If the volume is 450 feetcubed, how wide is the pool?

3. Mike has a cylindrical vase that he wants to fill with colored sand. The vase has a radius of 5 cm and is 10 cm tall. Mike knows that one vial of sand contains 215 cm3 of sand. How many vials does Mike need to fill the vase?

4. A square prism has a volume of 125 cm3 . What are the dimensions of the prism?

5. A cylindrical washer holds 25∏ ft3 water. The washer is 4 feet deep. What is the diameter of the washer?