

1. Find the volume of a cylinder, whose radius and height are 8 in and 11 in respectively. (Write answer to 4 significant figures)

2. Find the volume of a cone whose diameter is equal to its height which measures 16 *in*. (Write answer to 4 significant figures)

**Use the following information to answer questions 3 and 4**

A cylindrical tank has an internal diameter of 7.2 *ft* while its thickness is 0.8*ft*.

3. Find the capacity of the tank in *cubic feet* if it is 4.5 high. (Write answer to 4 significant figures)

4. What is the volume of the thickness of the wall of the cylinder? (Write answer to 4 significant figures)

5. What would be the volume of a cone whose height which is twice the diameter is 24 in. (Write answer to 4 significant figures)

## Answer Key

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1.  $2212 \text{ in}^3$
2.  $1072 \text{ in}^3$
3.  $183.2 \text{ in}^3$
4.  $90.48 \text{ in}^3$
5.  $3619 \text{ in}^3$