Name:

Date:

10-3C Volume Notes: Composite Three-Dimensional Figures

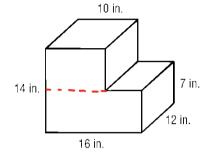
For **Prisms** and **Cylinders**

V = Bh B: area of base shape h: height of prism/cylinde

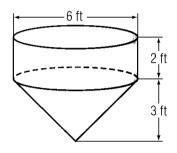
For **Pyramids** and **Cones**

Ex. 1: Find the volume of each composite figure. Round to the nearest tenth if necessary.

A.



В.



Top box:

box:
$$V = Bh$$

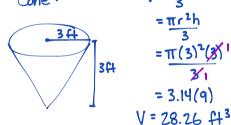
= $l \omega h$
= $12(10)(7)$
 $V = 840 \text{ in}^3$

Cylinder:

V=Bh

Bottom box:

Cone:



Top + Bottom = Total

Cylinder + Cone = Total 56.52 ft³ + 28.26 ft³ = 84.8 ft³



KEY TIPS:

- 1) Circle (height of figure)
- 2) Shade (bases)
- 3) Name (figure using the shape of the base)
- 4) Write basic formula for 3-D figure
- 5) Write specific formula (according to base)
- 6) Substitute values
- 7) Calculate
- 8) Check units/rounding

Homework: GM7 page 608 (1-4, 6, ***Find volume for all figures!***