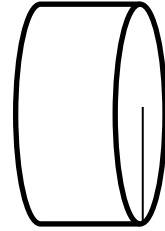
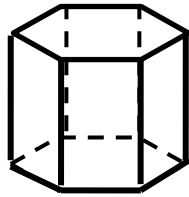
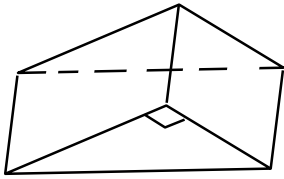


Check for understanding:

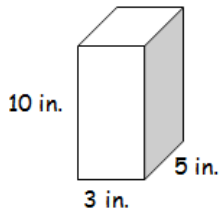
- For each solid below: (a) identify the type of solid (be specific)
 (b) shade in the base or bases
 (c) label the height



Practice: C-Level

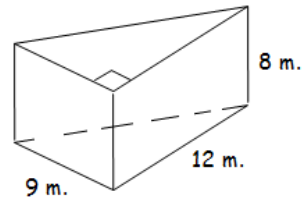
Find the volume of each. Show your work.

1.



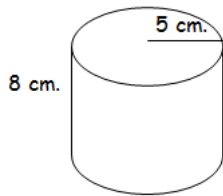
Volume _____

2.



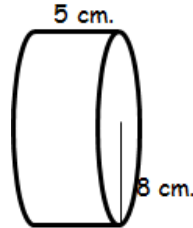
Volume _____

3.



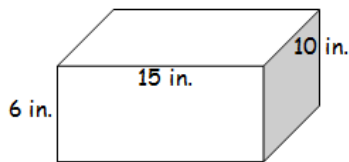
Volume _____

4.



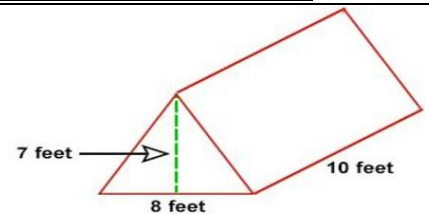
Volume _____

5.



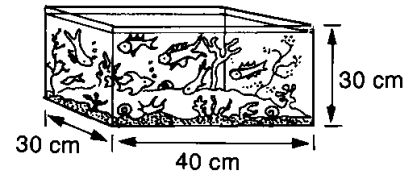
Volume _____

6.

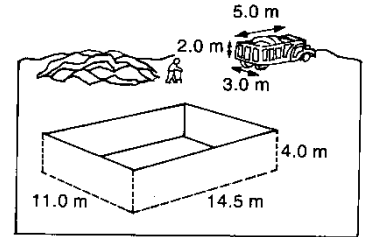


Volume _____

7. If one guppy requires 5,000 cubic centimeters of water to live happily, what is the maximum number of guppies that should be kept in this aquarium?



8. The excavation for a house and the trucks to carry away the material have the dimensions shown. About how many level truck loads are necessary to remove all the dirt?



9. The Butterfly House at the animal park contains 625 butterflies. If the dimensions of the house are 15 feet by 20 feet by 10 feet, what is the density of butterflies per cubic foot?

Practice: B-Level

Find the missing measures. Hint, draw a picture, draw a picture, draw a picture:

| | | |
|---|---|--|
| <p>10. Height of a cylinder with a radius of 3 cm. and a volume of 63π cu. cm.</p> | <p>11. Height of a prism with a volume of 45 cu. in. and a rectangular base with dimensions of 3 in. by 5 in.</p> | <p>12. Radius of a cylinder with a volume of 200π cu. feet, and a height of 8 feet.</p> |
|---|---|--|

13. A rectangular strip of aluminum, 30 cm long and 10 cm wide, is rolled into the form of a cylinder. Which would have the greater volume, a cylinder 10 cm high with circumference of 30 cm or a cylinder 30 cm high with circumference of 10 cm?