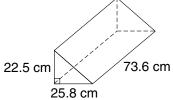
Practice C

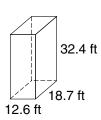
6-6 Volume of Prisms and Cylinders

Find the volume to the nearest tenth of a unit.

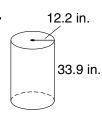
1.



2.

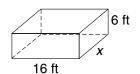


3.

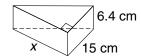


Find the missing measure to the nearest tenth of a unit.

4. volume is 1152 ft³



5. volume is 1132.8 cm³



6. volume is 39.193.48 in³



- 7. Atmo's Theater's large-sized popcorn container is a cylinder with a diameter of 9 in. and is 6 in. tall. The medium-sized container has a diameter of 6 in. and is 8 in. tall. Find the difference in the volumes.
- 8. The Blackmans have a new 10-ft by 20-ft rectangular swimming pool in their backyard. It has a uniform depth of 5 ft. What is the volume of water needed to fill the pool?
- 9. Donna decorated a three-tiered cake for her parent's anniversary party. The bottom tier had a 12-in. diameter, the middle tier, a 9-in. diameter, and the top tier, a 6-in. diameter. Each tier was 4 in. tall. What was the total volume of the cake to the nearest tenth of a unit?
- 10. A company produces 100,000 boxes of cereal with dimensions of 12 in. (height) by 8 in. by 1.5 in. The manufacturer is trying to cut production cost per box so the height of the box is decreased by one inch. Approximately how many more boxes of cereal can be produced in a month with the new dimensions using the same amount of cereal? Round the answer to the nearest integer.

