

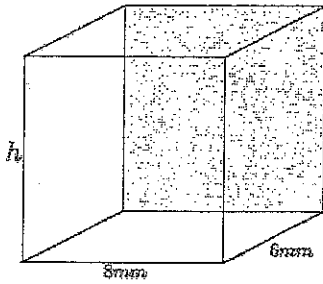
Lesson 10: Volumes of Familiar Solids—Cones and Cylinders

Classwork

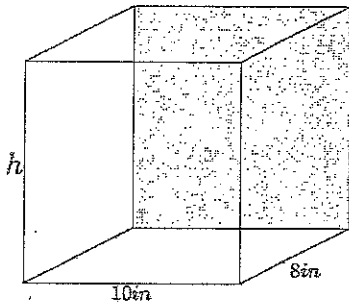
Exercises

1.

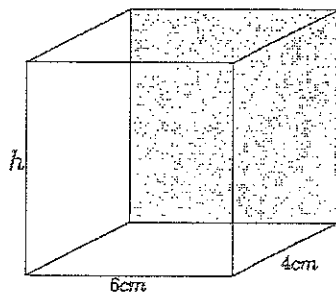
- a. Write an equation to determine the volume of the rectangular prism shown below.



- b. Write an equation to determine the volume of the rectangular prism shown below.

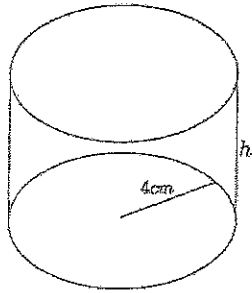


- c. Write an equation to determine the volume of the rectangular prism shown below.



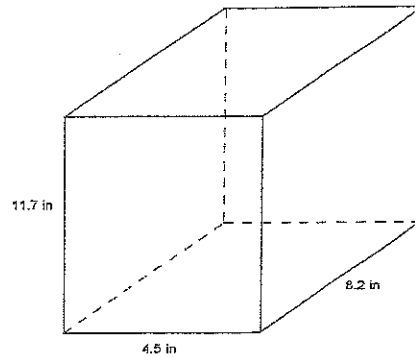
- d. Write an equation for volume, V , in terms of the area of the base, B .

2. Using what you learned in Exercise 1, write an equation to determine the volume of the cylinder shown below.



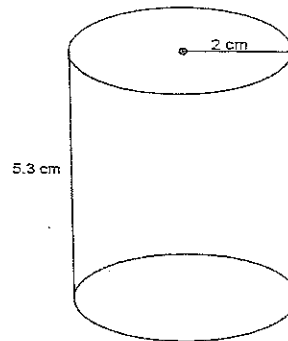
3. Use the diagram at right to answer the questions.

- a. What is the area of the base?
- b. What is the height?
- c. What is the volume of the rectangular prism?



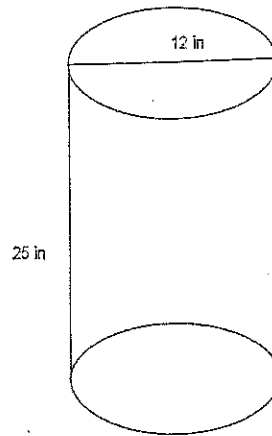
4. Use the diagram at right to answer the questions.

- a. What is the area of the base?
- b. What is the height?
- c. What is the volume of the right cylinder?



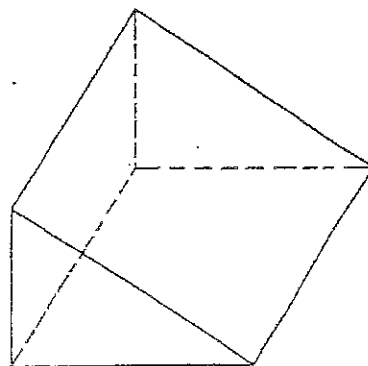
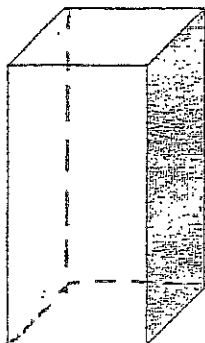
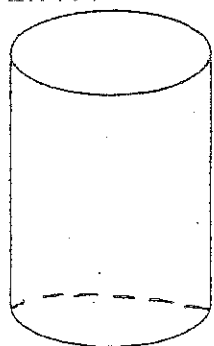
5. Use the diagram at right to answer the questions.

- a. What is the area of the base?
- b. What is the height?
- c. What is the volume of the right cylinder?



Similarities of Prisms

For each figure, label one face that is the base and label the height.



Notes: