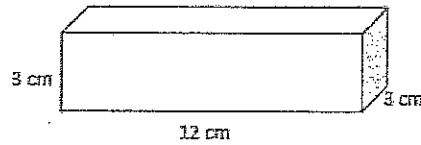# Volume of Prisms

As you complete Exercises 7–10, record the information in the table below.

	Area of base (A)	Height (h)	Volume
Exercise 7			
Exercise 8			
Exercise 9			
Exercise 10			

7. Use the figure below to answer parts (a)–(c).
    a. What is the area of the base?
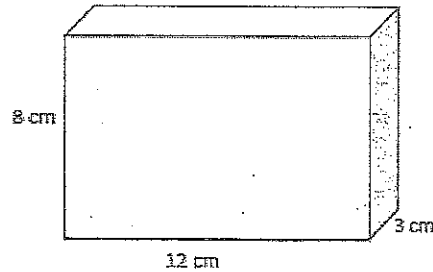
    b. What is the height of the figure?

    c. What is the volume of the figure?

3 cm

12 cm

3 cm

8. Use the figure to the right to answer parts (a)–(c).
    a. What is the area of the base?
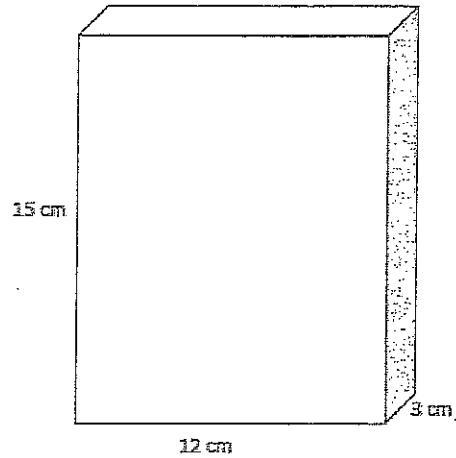
    b. What is the height of the figure?

    c. What is the volume of the figure?

8 cm

3 cm

12 cm

9. Use the figure to the right to answer parts (a)–(c).

   a.   What is the area of the base?

   b.   What is the height of the figure?

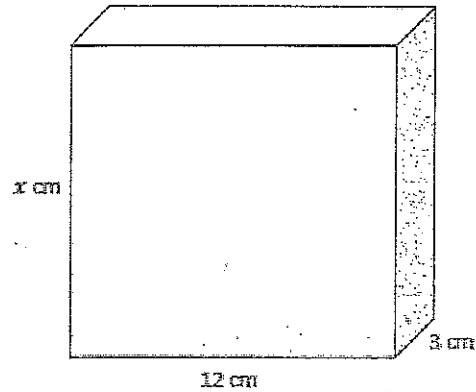   c.   What is the volume of the figure?

15 cm

3 cm

12 cm
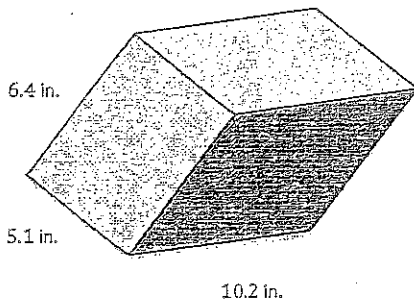
10. Use the figure to the right to answer parts (a)–(c).
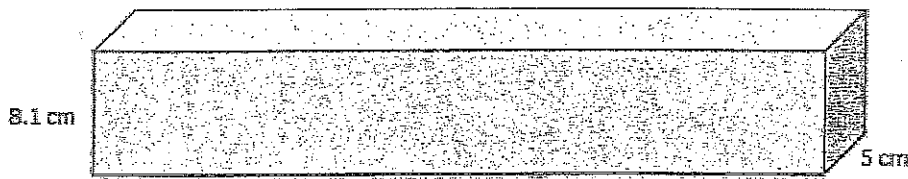
   a.   What is the area of the base?

   b.   What is the height of the figure?

   c.   Write and describe a function that will allow you to determine the volume of any rectangular prism that has a base area of 36 cm^2.

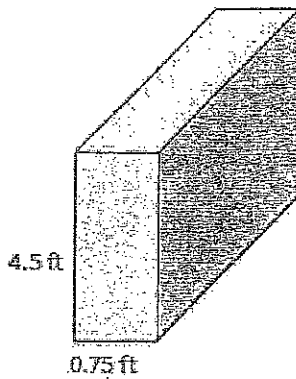x cm

3 cm

12 cm

6. Determine the volume of the rectangular prism shown below.

6.4 in.

5.1 in.

10.2 in.

7. The volume of the prism shown below is 972 cm^3. What is its length?

8.1 cm

5 cm

8. The volume of the prism shown below is 32.7375 ft^3. What is its width?

4.5 ft

0.75 ft

9. Determine the volume of the 3-dimensional figure below. Explain how you got your answer.

2   2.5

1.5

2

1   1