Name _____ Date _____ Class _____

Find how many cubes each prism holds. Then give the prism's volume to the nearest tenth.

1.

2.

3.

_____

_____

_____

_____

_____

_____

Find the volume of each figure to the nearest tenth.

4.
4.1 in.
3.7 in.
8.2 in.

5.
7 cm
10.5 cm
13 cm

6.
8.2 m
6.3 m
6.5 m

_____

_____

_____

7.
4.4 ft
7 ft
3.5 ft

8.
2 m
0.9 m
7.2 m

9.
6.8 cm
1.7 cm
3.5 cm

_____

_____

_____
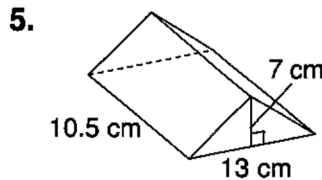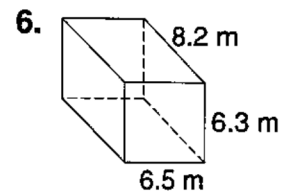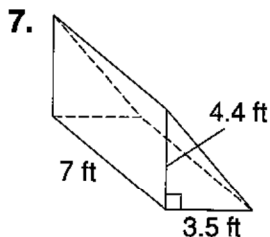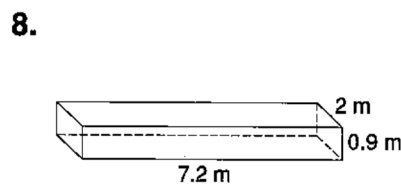
10. A vase is in the shape of a cylinder with a diameter of 5 inches and a height of 9 inches. What is the volume of the vase? Use 3.14 for π.

_____

11. A glass is shaped like a cylinder. The glass has a volume of 602.88 centimeters and a radius of 4 centimeters. What is the height?

_____

12. The base of a triangular prism is a right triangle with hypotenuse 13 inches long and one leg 12 inches long. The height of the prism is 8 inches. What is the volume of the prism?

_____

Holt Mathematics

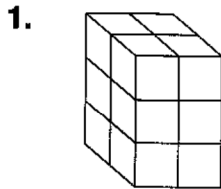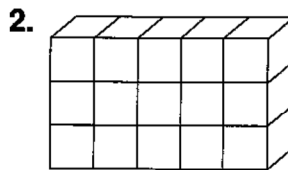## LESSON **Practice B**

10-2 *Volume of Prisms and Cylinders*

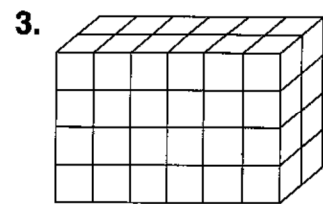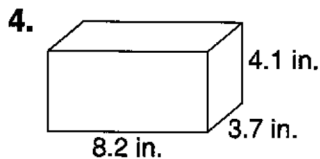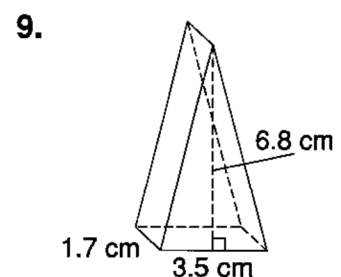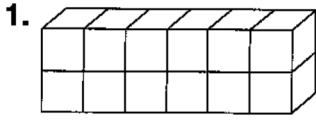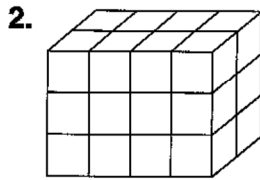**Find how many cubes each prism holds. Then give the prism's volume.**

1.

2.

3.

_____

_____

_____

Find the volume of each figure.

4.

5 in.
9 in.
4 in.

5.

10 yd
5 yd
9 yd

6.

7.4 in.
2.1 in.
3.7 in.

_____

_____

_____

7.

7.5 in.
8.1 in.
12 in.

8.

5 cm
11 cm
13 cm

9.

13 m
9 m
18 m
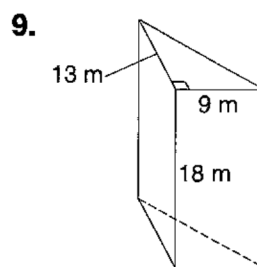
_____

_____

_____
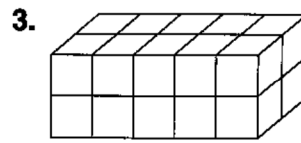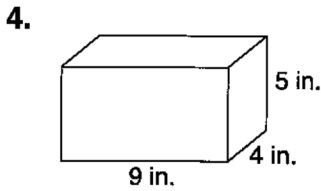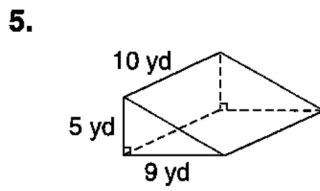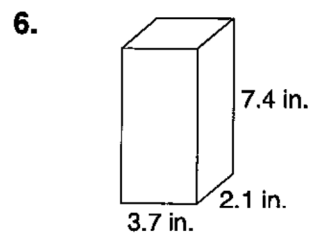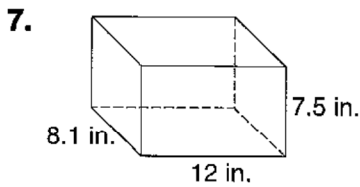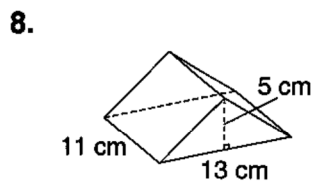
10. A travel mug is shaped like a cylinder. It is 9 centimeters wide
    and 15 centimeters tall. Find its volume to the nearest tenth.
    Use 3.14 for π.

_____

Holt Mathematics