Name _____ Date _____ Class _____
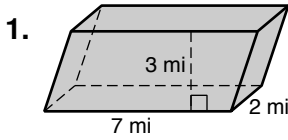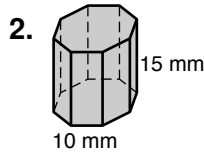
Practice B
Volume of Prisms and Cylinders

Find the volume of each prism. Round to the nearest tenth if necessary.

1.

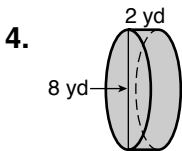3 mi
2 mi
7 mi

the oblique rectangular prism

_____

2.

15 mm
10 mm
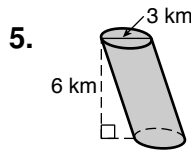
the regular octagonal prism

_____

3. a cube with edge length 0.75 m _____

**Find the volume of each cylinder. Give your answers both in terms of π and rounded to the nearest tenth.**

4.

2 yd
8 yd

_____

5.

3 km
6 km

_____

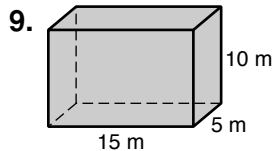**6.** a cylinder with base circumference 18π ft and height 10 ft _____

7. CDs have the dimensions shown in the figure. Each CD is 1 mm thick. Find the volume in cubic centimeters of a stack of 25 CDs. Round to the nearest tenth.

0.75 cm
5.25 cm

_____
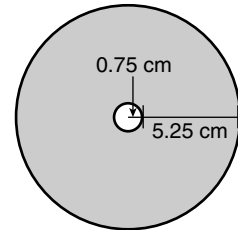
Describe the effect of each change on the volume of the given figure.

8.

6 in.
4 in.
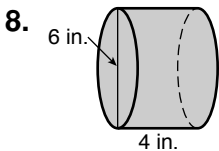
The dimensions are halved.

_____

9.

10 m
5 m
15 m

The dimensions are divided by 5.

_____

Find the volume of each composite figure. Round to the nearest tenth.

10.

8 ft
8 ft
8 ft

_____

11.

8 cm
5 cm
4 cm
2 cm
1 cm

_____

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Holt Geometry