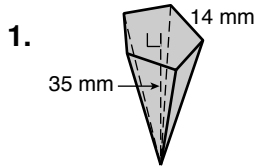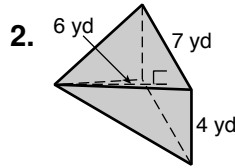# Practice B
Volume of Pyramids and Cones

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

1.
14 mm
35 mm

the regular pentagonal pyramid

2.
6 yd
7 yd
4 yd

the rectangular right pyramid

3. Giza in Egypt is the site of the three great Egyptian pyramids. Each pyramid has a square base. The largest pyramid was built for Khufu. When first built, it had base edges of 754 feet and a height of 481 feet. Over the centuries, some of the stone eroded away and some was taken for newer buildings. Khufu's pyramid today has base edges of 745 feet and a height of 471 feet. To the nearest cubic foot, find the difference between the original and current volumes of the pyramid.

Find the volume of each cone. Give your answers both in terms of π and rounded to the nearest tenth.
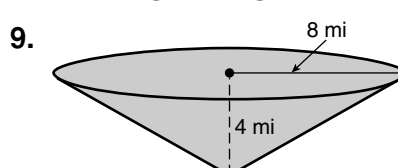
4.
15 cm
4 cm

5. 28 mi   100 mi
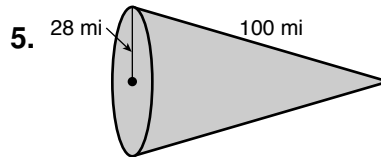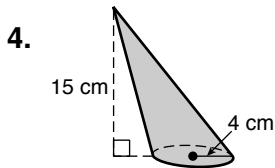
6. a cone with base circumference 6π m and a height equal to half the radius

7. Compare the volume of a cone and the volume of a cylinder with equal height and base area.

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

8.
5 in.
4 in.
4 in.
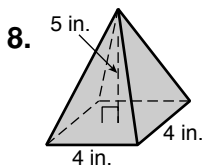
The dimensions are multiplied by $\frac{2}{3}$.

9.
8 mi
4 mi

The dimensions are tripled.

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

10.
3 ft
4 ft   4 ft
3 ft

11.
5 mm
8 mm

Holt Geometry