# WS 11.5 - 11.8 PC Review
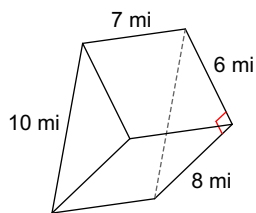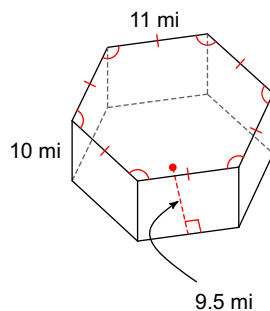
**Find the volume of each figure.  Round your answers to the nearest hundredth, if necessary.**
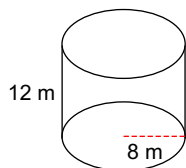
1)

7 mi
6 mi
10 mi
8 mi

2)

11 mi
10 mi
9.5 mi

3)

12 m
8 m

4)  A square prism measuring 4 km along each edge of the base and 8 km tall.

5)  A sphere with a radius of 7 km.

**Find the surface area of each figure.  Round your answers to the nearest hundredth, if necessary.  Leave your answers in terms of π for answers that contain π.**

6)  A sphere with a diameter of 22.4 in.

7)  A cone with diameter 12 ft and a slant height of 13.4 ft.

8) The volume of a square pyramid is 60 cubic inches and the height is 15 inches. Find the side length of the square base.

9) The volume of a cone is $100\pi$ cubic centimeters. If the height of the cone is 12 cm, find the radius.

10) The surface area of a sphere is $1296\pi \ in^2$. Find the volume of the sphere.

11) The volume of a prism is 80 $cm^3$. If the dimensions are tripled, find the volume of the new prism.

12) A cube with a side length of 6 cm has a cylinder with a radius of 2 cm removed from the center. Find the volume of the composite figure.