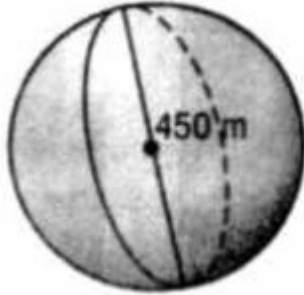


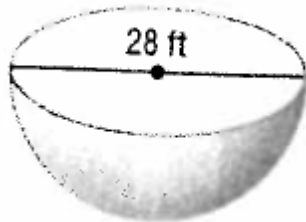
Name: _____
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Geometry
Unit 9
HW 9-3

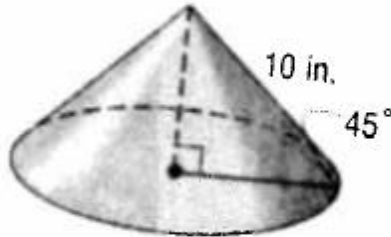
1) Find the surface area and volume of the following sphere in terms of π :



2) Find the volume and surface area to the nearest tenth of the following half sphere:



3) Find the volume and surface area to the nearest tenth of the following right circular cone:



4) If a golf ball has a diameter of 4.3 cm and a tennis ball has a diameter of 6.9cm find the difference between the volume of the two balls.

5) If a sphere has a volume of $\frac{2048\pi}{3} m^3$ what is its surface area in terms of π ?

6) Find the volume of empty space in a cylindrical tube of three tennis balls. The diameter of each ball is 2.5 inches. The cylinder is 2.5 inches in diameter and 7.5 inches tall.

7) If a pyramid has a slant height of 15cm that makes an angle of 35 degrees with the base, what is the volume of this pyramid?

8) If a triangular prism has isosceles triangles for a base which have legs equal to 16ft and base angles equal to 42 degrees, what is the surface area of the prism if the height of the prism is 22ft.