C.O.: $\qquad$
L.O.: $\qquad$

## Spheres:

A sphere with $\qquad$ $O$ and $\qquad$ $r$ is the set of all points in a space at a distance $\qquad$ from point $\qquad$ .

Many of the terms used with spheres are the same as those used with circles:
$\overline{O A}, \overline{O B}$, and $\overline{O D}$ are $\qquad$ .
$\overline{B D}$ is a $\qquad$ .
$\overline{B C}$ is a $\qquad$ .
$\overleftrightarrow{B C}$ is a $\qquad$ .
$\overleftrightarrow{A T}$ is a $\qquad$ .

$\overline{A T}$ is a $\qquad$ _.

Theorem 12-9: The area of a sphere equals $\qquad$

Equation:


Theorem 12-10: The volume of a sphere equals $\qquad$ Equation:

Practice: Find the Area and Volume of the following Spheres.
1.)

2.)


Group Practice: Find the Area and Volume of the following Spheres in your groups.
1.)

2.)

3.)

4.)

5.)

6.)

7.) A sphere has diameter 15.6. Find the area and volume.
8.) A sphere has a volume of $\frac{1372 \pi}{3}$. Find the radius and the area.
9.) A sphere has an area of $144 \pi$. Find the radius and volume.

