Keu

Geometry 10.1-10.2 HW

1. Identification

a. Name the circle.

circle 0

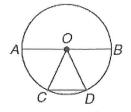
c. Name the chords of a circle.

AB or CD

b. Name the radii of the circle.

Example: OA, OB, OC, OB

d. Name the diameter of the circle.



AR

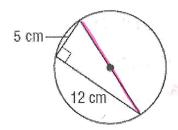
2. Find the circumference of a circle with the radius of $r=3\sqrt{2}$. Round to the nearest hundredth. $C = 2\pi \sqrt{3}$ $C = 6\sqrt{3}$ $C = 6\sqrt{3}$

3. If the radius of a circle is 4 what is the diameter and what is the circumference?

$$d = 8$$

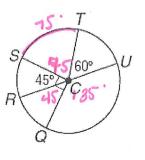
4. If the diameter of a circle is 6, find the radius and circumference.

5. Find the circumference of the circle.



Find each measure.

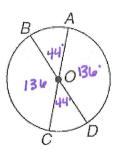
1.
$$m \angle SCT = 75$$
°



In $\bigcirc O$, $m \angle BOA = 44$. Find each measure.

6.
$$m\widehat{BC} = 136^{\circ}$$

10.
$$m\widehat{AD} = |3|_{\circ}^{\circ}$$

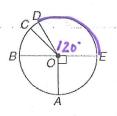


Arc Length: $\frac{\text{length of } \widehat{AB}}{\text{circumference}} = \frac{\text{degree measure of arc}}{\text{degree measure of circle}}$

The diameter of $\odot O$ is 24 units long. Find the length of each arc for the given angle measure. Round to the nearest tenth.

1.
$$\widehat{DE}$$
 if $m \angle DOE = 120$

$$\frac{120}{360} \cdot C = \frac{120}{360} \cdot \frac{2411}{360} = \frac{288011}{360}$$



arc length = 8 Trunits

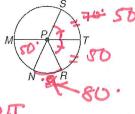
The diameter of $\bigcirc P$ is 15 units long and $\angle SPT \cong \angle RPT$. Find the length of each arc for the given angle measure. Round to the nearest tenth.

2.,
$$\widehat{RT}$$
 if $m \angle SPT = 70$

3.
$$\widehat{NR}$$
 if $m \angle RPT = 50$

$$\frac{70}{360}$$
 . $\frac{15\pi}{360}$ = $\frac{35\pi}{12}$ units





= 3

4. Explain the difference between arc Length and arc measure.

Harc measure is the degree of rotation from the onc.

* Arc length is the portion of the circumbunce.