Name $\qquad$ \# $\qquad$

Geometry: Period $\qquad$

## Ms. Pierre

Date: $\qquad$

## Parts of a Circle

## Today's Objective

SWBAT identify parts of a circle and as well as classify arcs as minor or major.
Circular arcs are classified by their measure.
$\qquad$ arcs measure less than $180^{\circ}$. They are typically named using $\qquad$ points.
$\qquad$ arcs measure less than $180^{\circ}$. They are typically named using $\qquad$ points.
An arc measuring exactly $180^{\circ}$ may be called a
$\qquad$ - $\qquad$ _.

## Explore

| Term | Definition |
| :---: | :--- |
| Circle | A round plane figure whose boundary <br> (circumference ) consists of points <br> equidistant for a fixed point (center) |
| Arc | An unbroken part of a circle |
| Minor Arc | Given two points on a circle, it is the <br> shortest arc linking them. Arc that <br> have a measure less than 180 |
| Angle |  |
| Major arc circle |  | | Given two points on a circle, it is the |
| :--- |
| longest arc linking them. Arc that |
| have a measure greater than 180 |

## Example 1

Tell whether the line, ray, or segment is best described as a radius, chord, diameter, secant, or tangent of $\odot P$.
a. $\overline{R T}$

b. $\overrightarrow{W T}$
c. $\overline{P T}$
d. $\overleftrightarrow{R Q}$
$\square$ Check for Understanding
a. What word best describes $\overline{Q R}$ ?
b. What word best describes $\overline{P R}$ ?

## Example 2

Name the arc shown in bold and classify it as a major arc, a minor arc or a semi-circle.
a)

b)

c)


## च Check for Understanding

$\overline{P M}$ is a diameter for $\odot R$. Classify each arc as a major arc, a minor arc or a semi-circle.
a) $\widehat{M Q}$

b) $\widehat{M N P}$
c) $\widehat{M N Q}$

## Guided Practice

1) Tell whether the line, ray, or segment is best described as a radius, chord, diameter, secant, or tangent of $\odot C$.
a. $\overline{D F}$
b. $\overline{A B}$
c. $\overline{C E}$
2) $\overline{K M}$ is a diameter for $\odot J$. Classify each arc as a major arc, a minor arc or a semi-circle.
a) $\widehat{L M}$

b) $\widehat{L M K}$
c) $\widehat{K L M}$

## 4 Independent Practice

1) Tell whether the line, ray, or segment is best described as a radius, chord, diameter, secant, or tangent of $\odot C$.
a. $\overline{D E}$
b. $\overleftrightarrow{A G}$

c. $\overrightarrow{E B}$
2) $\overline{C D}$ is a diameter for $\odot E$. Classify each arc as a major arc, minor arc or a semi-circle.
a) $\widehat{A D}$
d) $\widehat{B D C}$

b) $\widehat{A B}$
e) $\widehat{A C D}$
c) $\widehat{C D}$
f) $\widehat{B C}$

## 㞒Home Work

State the best term for the given figure in the diagram.

1. $\overleftrightarrow{F E}$

2. $\overline{D B}$
3. C
4. $\overline{B E}$
5. $\overleftrightarrow{D B}$

顛Home Work
In $\odot F$, determine whether the given arc is a major arc, a min arc or a semi-circle.
7. $\widehat{A B}$
8. $\widehat{A E}$

9. $\overline{E A C}$
10. $\overline{A C D}$
11. $\overline{C A D}$
12. $\overline{D E B}$
13. $\widehat{B A E}$
14. $\widehat{D E C}$

