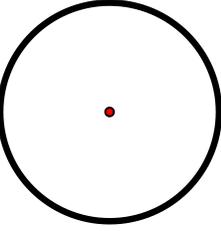
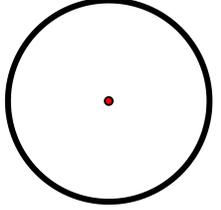
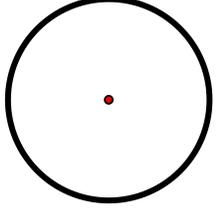
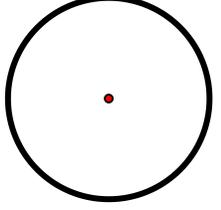
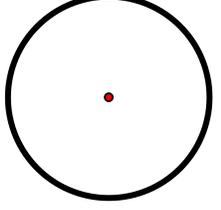
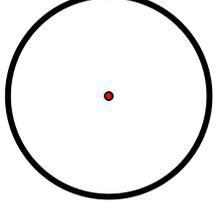
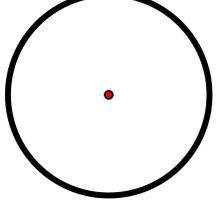


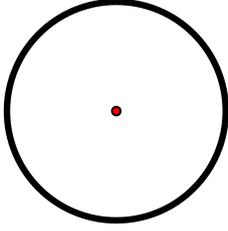
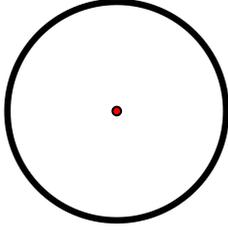
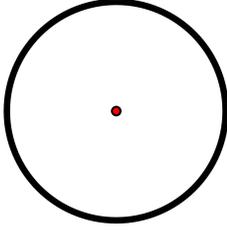
Name _____

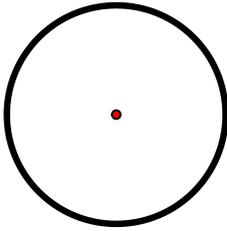
Date _____ Period _____

Topic: Circles: Vocabulary & Central Angles

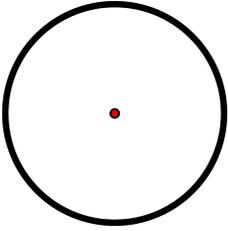
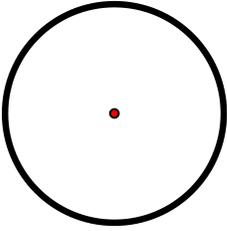
Class Website: msgiwa1.weebly.com

| Part | Description | Image |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Circle | The set of all points that are _____ from a reference point, the _____. The set of points forms a 2-dimensional curve that measures ____. |  |
| Chord | A _____ whose _____ lie on the circumference of the circle. |  |
| Diameter | A straight line passing through the _____ of a circle connecting two points on the circle; equal to _____ the radius. |  |
| Radius | The distance from the _____ to a _____ on the circle; equal to _____ the diameter. |  |
| Secant | A line that intersects a circle at _____ points. |  |
| Tangent Line | A line that intersects a circle at exactly _____ point and is _____ to the radius of the circle. |  |
| Point of Tangency | Where the tangent line _____ the circle. |  |

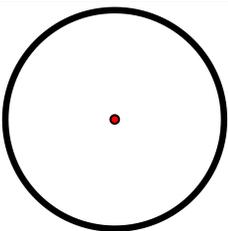
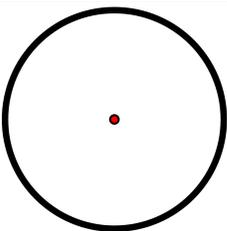
| Major Arc | Semicircle | Minor Arc |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |
| An _____ that is _____ of a circle. | Part of a circle's circumference that is _____ than its semicircle. | Part of a circle's circumference that is _____ than its semicircle. |
| | | |

| | | |
|-----------------------|---------------------------------------------------|-------------------------------------------------------------------------------------|
| Central Angles | An angle with its _____ at the _____ of a circle. |  |
| | ANGLE = ARC | |

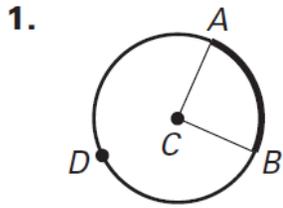
| THINGS TO KNOW AND REMEMBER ALWAYS! |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> • A circle has _____. • A semicircle has _____. • Vertical Angles are _____. • Linear Pairs are _____. |

| Arc Addition Postulate | Congruent Arcs |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
|  |  |
| | Two arcs that have the same _____ measurement and are either of the same circle or two congruent circles. |

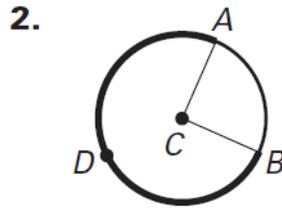
Examples

| | |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|

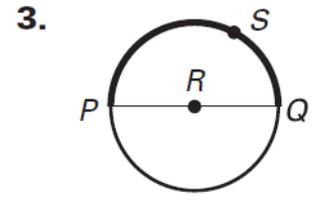
Name the arc shown in bold and classify it (minor, major, or semi).



_____ arc.



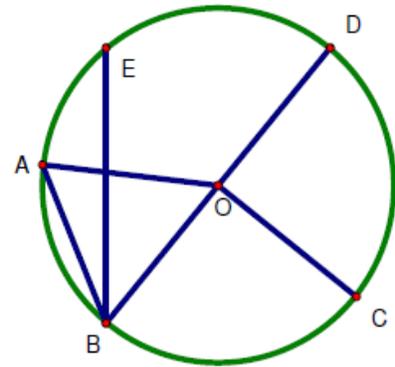
_____ arc.



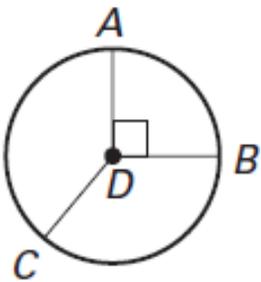
_____ arc.

4. Identify and name each of the following from $\odot O$. Be sure to use the correct notation.

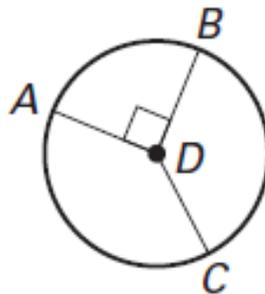
- Two different central angles: _____, _____
- Three different minor arcs: _____, _____, _____
- Three different major arcs: _____, _____, _____
- A semicircle: _____
- Two different chords: _____, _____
- The central angle subtended by \widehat{AD} : _____



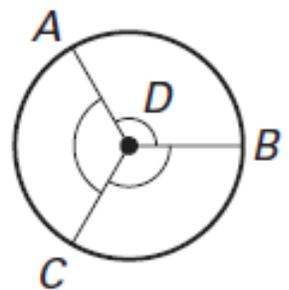
5. $m\widehat{AB} =$ _____



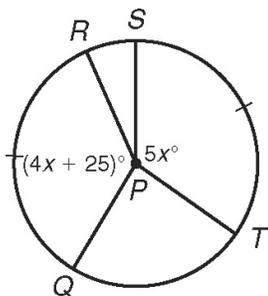
6. $m\widehat{ACB} =$ _____



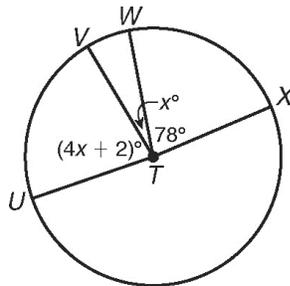
7. $m\widehat{CA} =$ _____



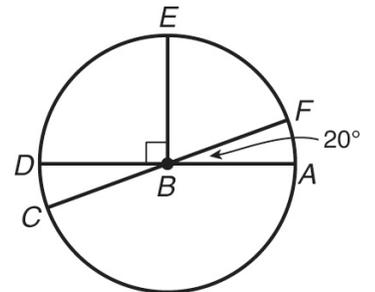
8. $m\angle QPR =$ _____



9. $m\angle UTW =$ _____, $m\widehat{UV} =$ _____



10. $m\widehat{EF} =$ _____, $m\widehat{CEA} =$ _____



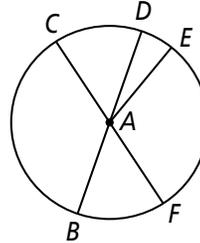
Practice

Form K

Circles and Arcs

Name the following in $\odot A$.

- the minor arcs
- the major arcs
- the semicircles

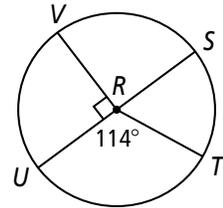


Find the measure of each arc in $\odot R$.

4. \widehat{UT}

To start, identify the central angle that intercepts \widehat{UT} .

The central angle that intercepts \widehat{UT} has a measure of .



- | | | |
|---------------------|---------------------|---------------------|
| 5. \widehat{ST} | 6. \widehat{SV} | 7. \widehat{VST} |
| 8. \widehat{UV} | 9. \widehat{VUT} | 10. \widehat{SVT} |
| 11. \widehat{USV} | 12. \widehat{UTS} | 13. \widehat{UVT} |
| 14. \widehat{TUS} | 15. \widehat{TSU} | 16. \widehat{VUS} |

Find each indicated measure for $\odot D$.

17. $m\angle EDI$

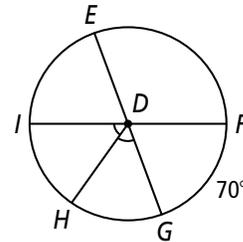
19. $m\widehat{GI}$

21. $m\widehat{FHE}$

18. $m\widehat{EF}$

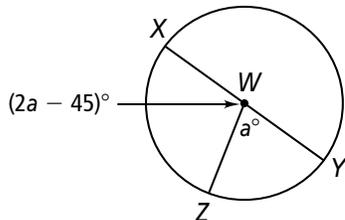
20. $m\angle IDH$

22. $m\widehat{GIF}$



Algebra Find the value of each variable.

23.



24.

