Welcome back, Everyone!

I hope you have all had an enjoyable break and are ready to find some routine. As we move into Quarter 4, we will be shifting the way we work through our content so that we can maintain all of our health and safety. Below is a description of changes you will see.

Moving forward, we will be working through content week by week, so our routine will look something like this:

Monday:

- All assignments, notes, and resources will be posted to my website at https://ca01001129.schoolwires.net/Domain/1730 by **9:00am**.
- **Assignments from the prior week will be due by 9:00am**.
- Mondays are devoted to meetings and preparation on my end, so I will only be available for scheduled one-on-one meetings and email questions. This will be between the hours of **12pm-3pm**.

Tuesday:

- If you *would like* to work through notes with me LIVE, you can connect to a Zoom meeting with me.
- The morning meeting will cover Algebra 1 topics and the afternoon meeting will cover the Geometry topics.
- These **meetings will be recorded and posted** on my website. Instructions for how to connect to me on Zoom are my website. All Zoom meetings are strictly voluntary.
- You may schedule one-on-one meetings, or reach out through Remind or email for help outside these meetings between the hours of **8am-3pm**.

Wednesday-Friday:

- From **10am-2pm**, I will be available on Zoom for "drop-in" help (think study group sort of setting).
- Instructions for how to connect to me on Zoom are on my website. All Zoom meetings are strictly voluntary, but will be recorded for record keeping purposes.
- You may schedule one-on-one meetings, or reach out through Remind or email for help outside these times between the hours of **8am-3pm**.

As a result in the change in routine, some changes will be made to my **late work, makeup, and retake policies.** Beginning immediately, **NO late work will be accepted.** As for makeup tests and retakes, I will address that in a future update as we get closer to a time when we would

normally take a test. If you have any questions regarding work, retakes, or accommodations from Quarter 3, please reach out to me through email no **later than April 10, 2020**.

Lastly, in an effort to be more accessible, I have set up a Remind. The course codes and add links are below.

Algebra 1: @dk7a22f

https://www.remind.com/join/dk7a22f

Geometry: @gbhaaa

https://www.remind.com/join/gbhaaa

We got this, guys!

Mosby

Heritage High School – Distance Learning
Ms. Mosby's Geometry Assignments
April 6 – April 10

Reading: Chapter 10.1 (pp.530-533) and Chapter 10.2 (pp.538-541)

Exercises: p.534 #5-10, 19-22, 29 and p.542 #5-16
Please submit your answers through Clever and the Big Ideas Math site.
Those without internet access may submit paper copies to the main office.

Quiz: p.582 #1-6, 12-16
Please submit your answers through Clever and the Big Ideas Math site.
Those without internet access may submit paper copies to the main office.

YouTube:

Contact: mosbyv@luhsd.net
925.634.0037 ext. 6404
Remind @gbhaaa
Zoom office hours

Video examples for 10.1:
https://bit.ly/2X3sKgp
https://bit.ly/2R3O3dR
https://bit.ly/2R6mFfs
https://bit.ly/2UUzf2s
https://bit.ly/3aA5OcC
https://bit.ly/2wXBlGT
https://bit.ly/2X6vB8q

Video examples for 10.2:
https://bit.ly/3aCmAIg
https://bit.ly/3bJPGFF
https://bit.ly/2w7SLjB
https://bit.ly/2R9f2VH
https://bit.ly/2wWirjy
https://bit.ly/2UZghrs
https://bit.ly/2wY21HA
https://bit.ly/2R7yulu

Accessing Big Ideas Through Clever

The preferred method of completing assignments is electronically through Clever.

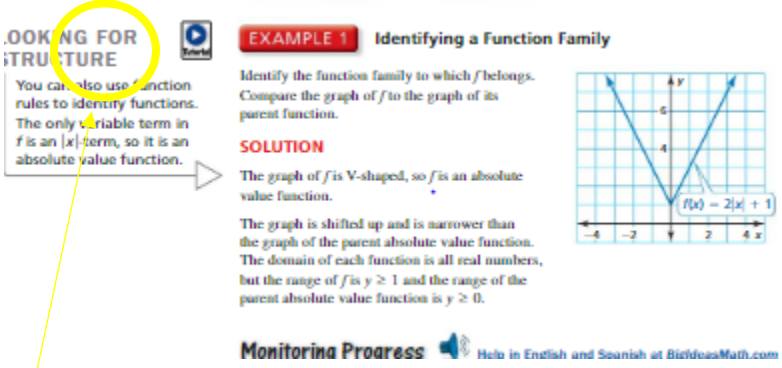
To access your assignments:

1. Go to clever.com/in/luhsd
2. Log in using your username and password as your student ID number for both items.
3. Scroll down to "Math" where you will see the Big Ideas Math logo, click on "Big Ideas Math"
4. If you are taking multiple math classes, you may need to select the book for the course you are working
5. In the middle there is a tab that says "Assignments," click on "Assignments"
   a. 

6. Choose an assignment to work on from the list. Click the pencil/enter to start the assignment.
   a. ***WARNING!!!!*** Clever does NOT automatically save and submit progress. Once you finish the last problem in an assignment, be sure to click your name in the top-right corner and click "Submit" to turn your assignment in.

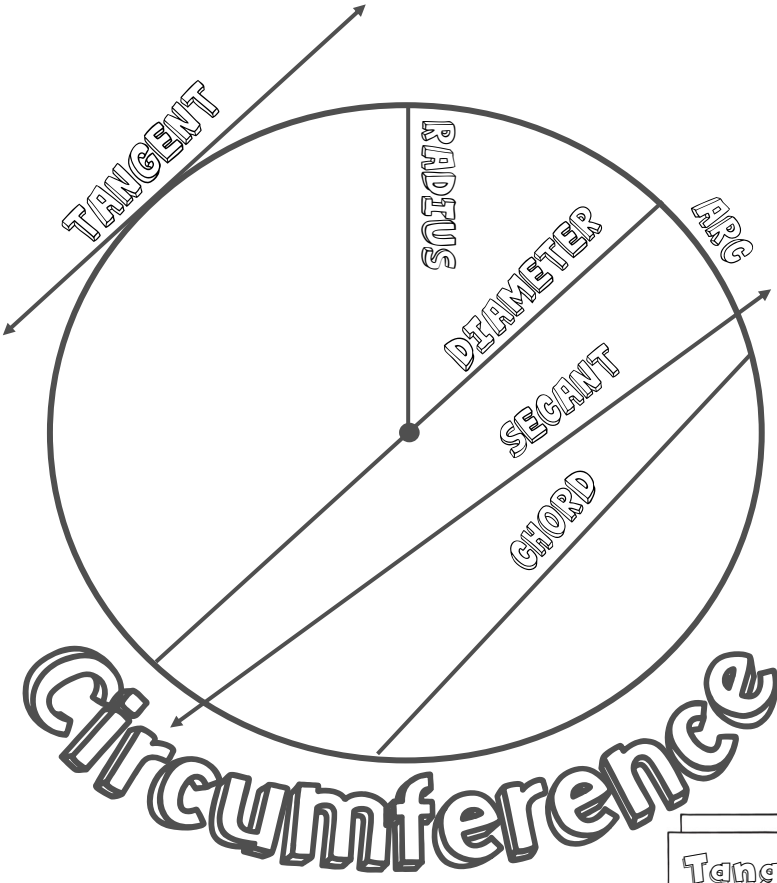
To access online readings & tutorial videos:

1. Go to clever.com/in/luhsd
2. Log in using your username and password as your student ID number
3. Scroll down to "Math" where you will see the Big Ideas Math logo, click on "Big Ideas Math"
4. If you are taking multiple math classes, you may need to select the book for the course you are working
5. Click on "Student Dynamic ebook"
6. You can use the "Contents" tab on the left to get to the section you wish to view. You can just read from here.
7. In the section you will see examples that look similar to the below pic:



The blue circle with triangle indicates there is a tutorial video for that example. Click the icon to view.

Parts of a CIRCLE



To-Do List:

- ☐ Label a "sector
- ☐ Draw an arrow to show
- ☐ that "Circumference" goes all the way around
- ☐ Highlight & embellish key ideas
- ☐ Label the "Center" in blue
- ☐ Complete the definitions
- ☐ Fill in each Theorem
- ☐ Complete each example
- ☐ Draw a diagram of each Theorem

DEFINITIONS

a line segment which passes through the center and has both ends on the circumference

a line segments which has both ends on the circumference

a line which touches the circumference exactly once

a line segment which has 1 end at the center and the other on the circumference

A part of the circumference

the point from which each part of the circumference is equidistant

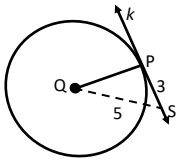
a slice of the circle created by 2 radii and an arc

a line which intersects the circumference twice

Tangent Line to Circle Theorem

A line is _____ to a circle if and only if the line is _____ to a _____ at its endpoint on the circle.

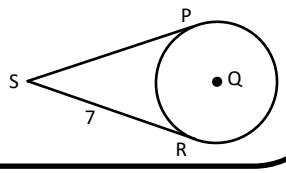
Ex: if line *k* is tangent to Circle Q, how long is QP?



External Tangent Congruence Theorem

Tangent segments from _____ external point are _____.

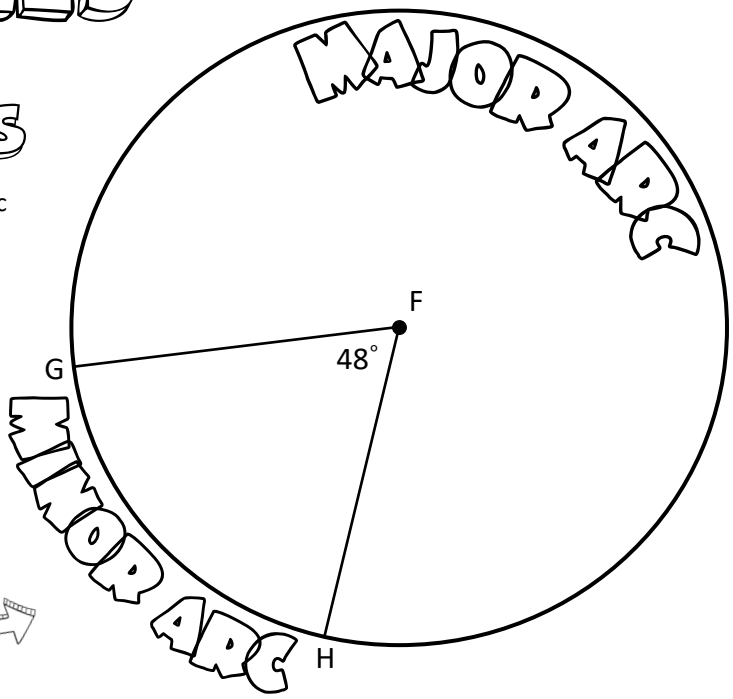
Ex: if lines SP and SR are tangent to Circle Q, how long is SP?



CENTRAL ANGLES & Arc Measures

To Do:

- ☐ Label a "Central Angle"
- ☐ Draw an arrow to show that the "Major Arc" goes around the outside
- ☐ Fill in the vocabulary words for each definition
- ☐ Highlight and Embellish Key Ideas
- ☐ Draw and label a "Semicircle"
- ☐ Draw a diagram for the "Arc Addition Postulate"
- ☐ Draw a diagram for the "Congruent Circles Postulate"
- ☐ Draw a diagram for the "Congruent Central Angles Postulate"
- ☐ Find the measures of these Major & Minor Arcs



DEFINITIONS

The measure of an arc listed in degrees; equal to the measure of its central angle

An angle created by two radii and measured in degrees

Arc with measure less than 180°

Arc with measure more than 180°

Arc with measure exactly 180°

Circle Similarity Theorem

All circles are _____ to each other.

Arc Addition Postulate

You can _____ and _____ the measures of arcs to get the _____ or a _____.

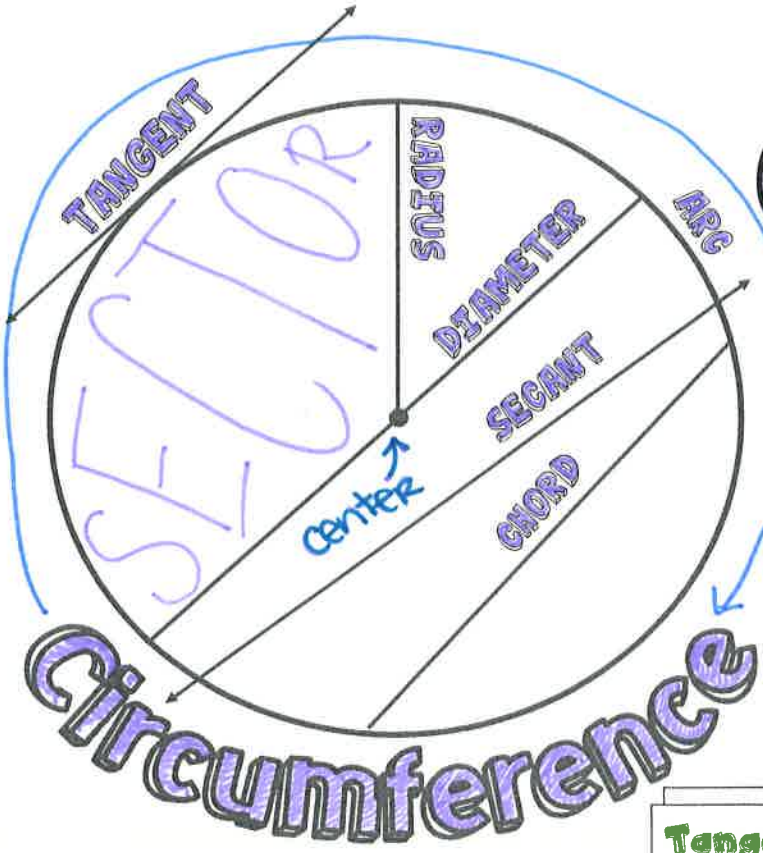
Congruent Circles Postulate

Two circles with the same _____ length are _____.

Congruent Central Angles Theorem

Two central angles in two separate _____ circles (or in _____ circle) with congruent arcs are _____.

Parts of a CIRCLE



To-Do List:

- ☑ Label a "sector
- ☑ Draw an arrow to show
- ☑ that "Circumference" goes all the way around
- ☐ Highlight & embellish key ideas
- ☑ Label the "Center" in blue
- ☑ Complete the definitions
- ☑ Fill in each Theorem
- ☑ Complete each example
- ☑ Draw a diagram of each Theorem

DEFINITIONS

Diameter
a line segment which passes through the center and has both ends on the circumference

Chord
a line segments which has both ends on the circumference

Radius
a line segment which has 1 end at the center and the other on the circumference

Tangent
a line which touches the circumference exactly once

Arc
A part of the circumference

Center
the point from which each part of the circumference is equidistant

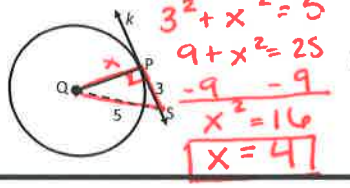
Sector
a slice of the circle created by 2 radii and an arc

Secant
a line which intersects the circumference twice

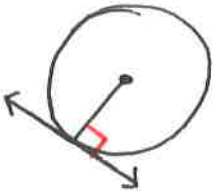
Tangent Line to Circle Theorem

A line is tangent to a circle if and only if the line is perpendicular to a Radius at its endpoint on the circle.

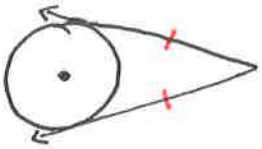
Ex: if line *k* is tangent to Circle Q, how long is QP?



$3^2 + x^2 = 5^2$
$9 + x^2 = 25$
$-9 \quad -9$
$x^2 = 16$
$x = 4$

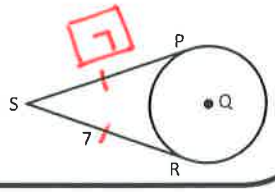


External Tangent Congruence Theorem



Tangent segments from the same external point are congruent

Ex: if lines SP and SR are tangent to Circle Q, how long is SP?



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- ☑ Draw a diagram for the "Arc Addition Postulate"
- ☑ Draw a diagram for the "Congruent Circles Postulate"
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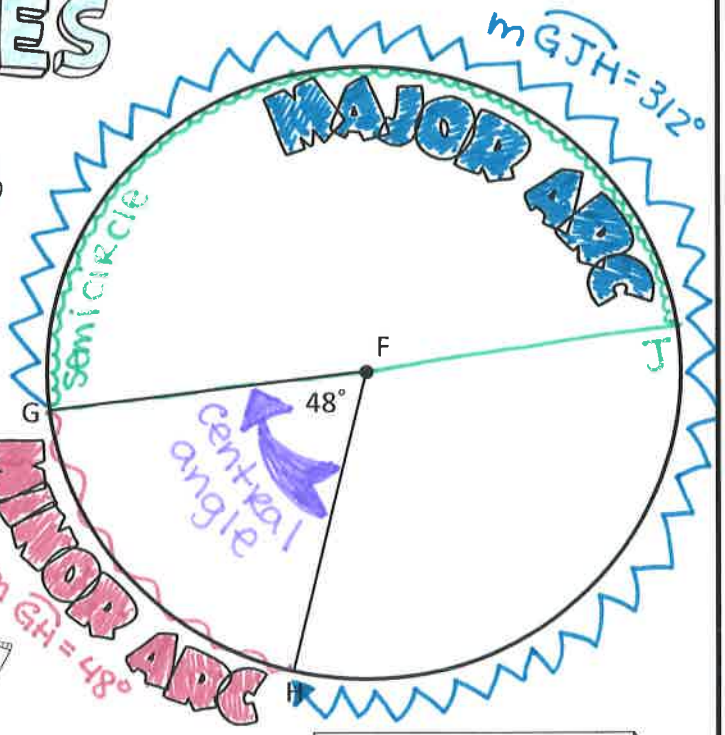
- ☑ Find the measures of these Major & Minor Arcs



DEFINITIONS

Arc Measure
The measure of an arc listed in degrees; equal to the measure of its central angle

Central Angle
An angle created by two radii and measured in degrees

Minor Arc
Arc with measure less than 180°

Major Arc
Arc with measure more than 180°

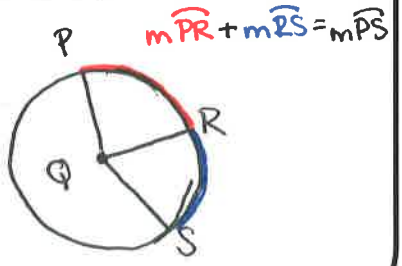
Semicircle
Arc with measure exactly 180°

Circle Similarity Theorem

All circles are similar to each other.

Arc Addition Postulate

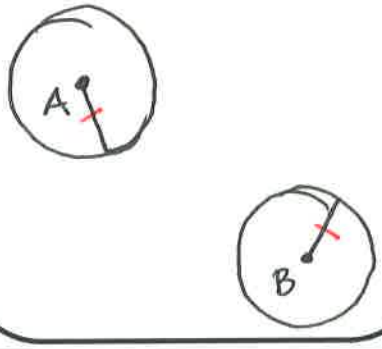
You can add and subtract the measures of arcs to get the whole or a part.



$m\overset{\frown}{PR} + m\overset{\frown}{RS} = m\overset{\frown}{PS}$

Congruent Circles Postulate

Two circles with the same radius length are congruent.



Congruent Central Angles Theorem

Two central angles in two separate congruent circles (or in the same circle) with congruent arcs are congruent.