Geometry Unit 7				
I can use work with circle properties.				
	No	ites	Example problems	
G7-11 can use	the properties of cent	ral and inscribed angles in a	a circle.	
G7-2_I can identify the parts of a circle and properties of chords and tangent lines.				
G7-3_I can derive pi and find the circumference of a circle and the arclength given a central angle.				
G7-4 I can find the area of a circle.				
G7- <u>5</u> can find the area of a sector.				
G7- <u>6</u> can apply circle properties.				
Warm-up ****G7-7_I can write the equation of a circle on the coordinate grid and graph a circle given the equation.				
Warm-up group test day	Warm-up on test day.		gh grade on a test. "Which ones are stil here you made your error on a test probl	
????????? ??????????				

radius: FHE central angle: LFGH inscribed angle: LMNP

two major arcs: FGH two minor arcs: intercepted arc:







Property #1:

The measure of the INSCRIBED ANGLE is ALWAYS half the measure of the central angle with the same intercepted arc.





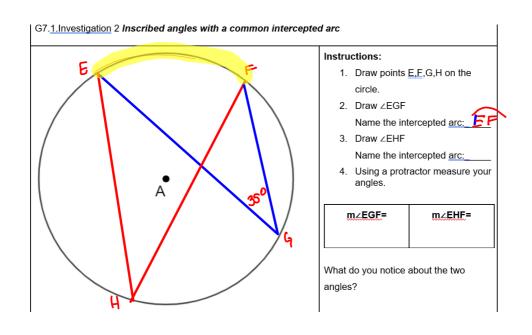


 $\Theta = \frac{100^{\circ}}{2} = 50^{\circ}$ $\Theta = 35^{\circ}(2) = 76^{\circ}$

280°

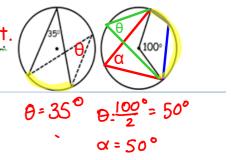
central angle --> inscribed angle (divide by 2) (times 2)

inscribed angle --> central angle

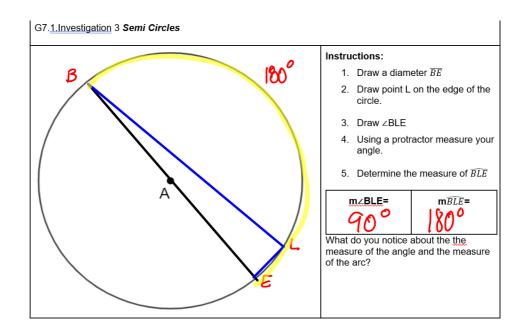


Property #2:

Inscribed angles that intercept the same arc are congruent.



Hint: Use a highlighter to mark the intercepted arc.



Property #3:

Angles inscribed in a semicircle are <u>right angles</u>.
(See property #1)

