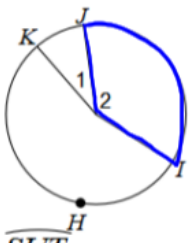
Geometry Name_____

Central Angles And Arcs

Date_____ Period____

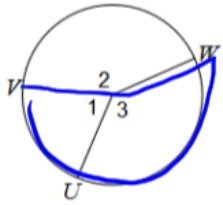
If an angle is given, name the arc it makes. If an arc is given, name its central angle.

1) $\overset{\frown}{JI}$



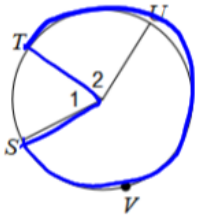
∠2

2) Major arc for $\angle 2$



VUW

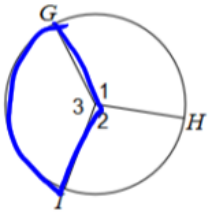
3) $\overset{\frown}{SUT}$



major arc

∠1

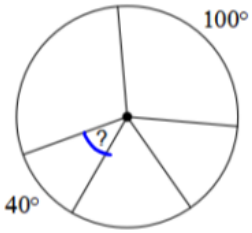
4) $\angle 3$



GI

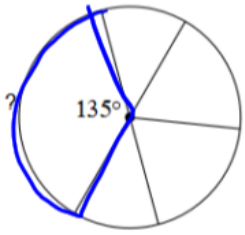
Find the measure of the arc or central angle indicated. Assume that lines which appear to be diameters are actual diameters.

5)



40°

6)

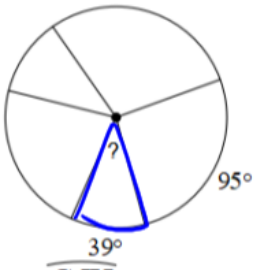


135°

7)

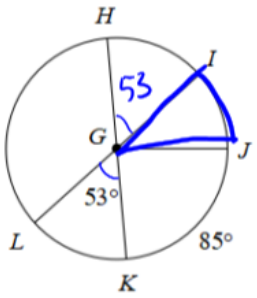
127°

8)



39°

9) $m\angle IGJ$

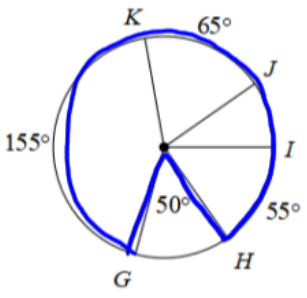


$85+53+m\angle IGJ=180$

$138+m\angle IGJ=180$

$m\angle IGJ=42°$

10) $m\overset{\frown}{GJH}$



$m\overset{\frown}{GJH}=360-50$

$=310°$

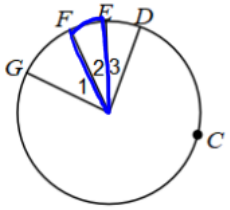
Geometry Name_____

Central Angles and Arc Measures

Date_____ Period____

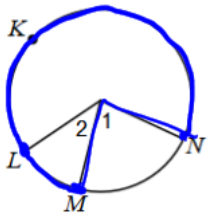
If an angle is given, name the arc it makes. If an arc is given, name its central angle.

11) $\overset{\frown}{FE}$



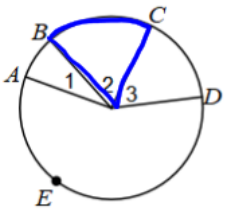
∠2

12) $\overset{\frown}{NLM}$



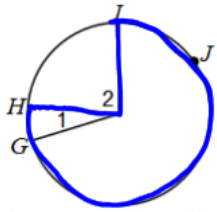
major arc ∠1

13) ∠2



$\overset{\frown}{BC}$

14) Major arc for ∠2

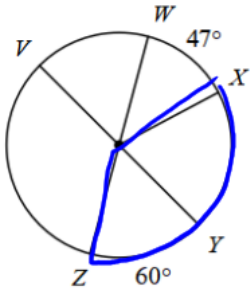


$\overset{\frown}{HJI}$

Find the measure of the arc or central angle indicated. Assume that lines which appear to be diameters are actual diameters.

15) $m\overset{\frown}{XZ}$

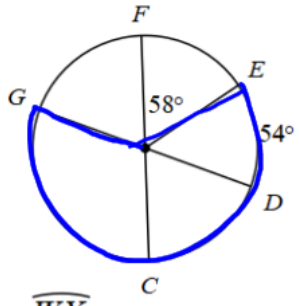
$\overline{WZ}$ is a diameter = 180°



180 − 47 = 133°

16) $m\overset{\frown}{EDG}$

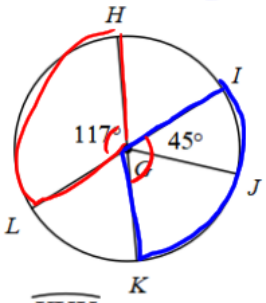
$\overline{GD}$ is a diameter = 180°



180 + 54 = 224°

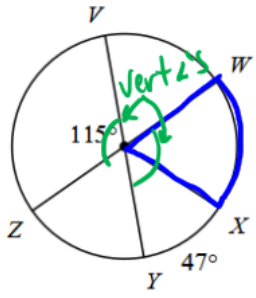
17) $m\angle IGK$

∠IGK vert. ∠s with ∠HGL.



$m\angle IGK = 117°$

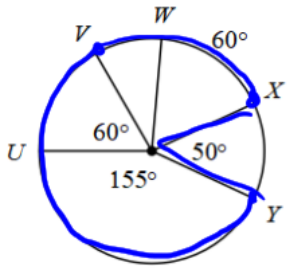
18) $m\overset{\frown}{WX}$



115 − 47 = 68°

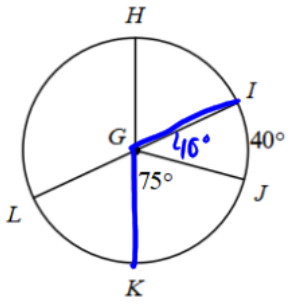
$m\overset{\frown}{WX} = 68°$

19) $m\overset{\frown}{YVX}$



360 − 50 = 110°

20) $m\angle IGK$



$m\angle IGK = 70 + 40$

$m\angle IGK = 110°$