Name: _____ Period: _____

Checkpoint 9B *Integrated Math 2*

Answer the questions thoroughly including any necessary math or explanations.

For Questions 1 through 11, choose one of the following words to describe the phrase or diagram:

ARC BISECT CENTRAL ANGLE CHORD DIAMETER RADIUS

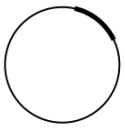
1) A segment with endpoints on a circle. _____

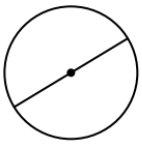
2) To divide exactly in half. _____

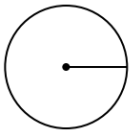
3) A segment from the center of a circle to any point on the circle. _____

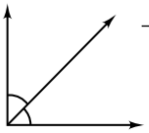
4) An angle whose vertex is the center of a circle. _____

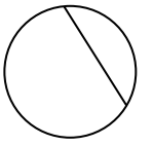
5) A segment with endpoints on a circle that passes through the center. _____

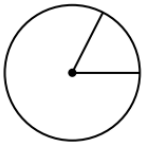
6)  _____

7)  _____

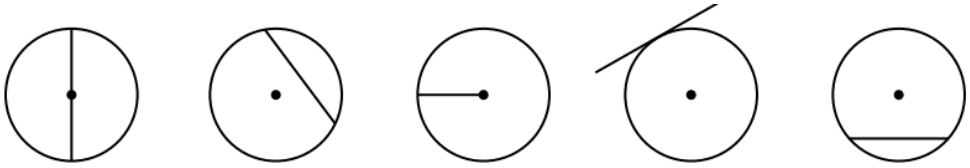
8)  _____

9)  _____

10)  _____

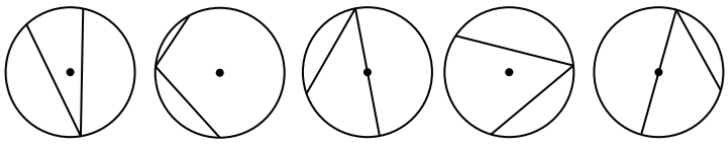
11)  _____

12) Circle each circle displays a chord.



13) Circle the vertex of each angle.

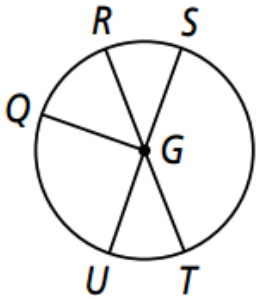
14) Trace the intercepted arc in each diagram.



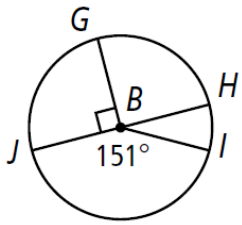
15) Name all the minor arcs. There are 8 of them.

16) Name all the major arcs. There are 8 of them.

17) Name all the semi circles. There are 4 of them.



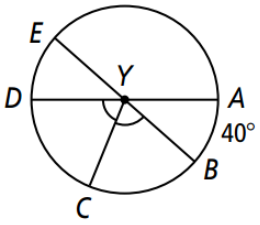
For questions 18 through 25, determine the measure of each arc in $\odot B$.



18) mGJ 19) mHI 20) $mHIJ$ 21) $mGJI$

22) $mGHJ$ 23) $mGJH$ 24) $mHGJ$ 25) mGH

For questions 26 and 29, determine the measure of the angle in $\odot Y$; for the rest of the questions, determine the measure of each arc in $\odot Y$.

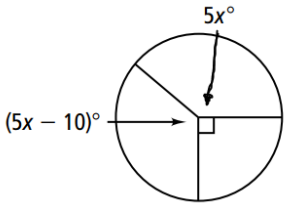


26) $m\angle EYD$ 27) $mEAB$ 28) mDB

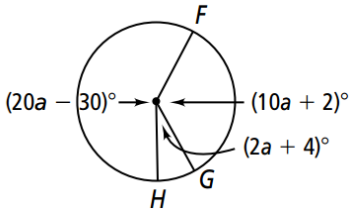
29) $m\angle DYC$ 30) $mAEC$ 31) $mBDA$

For questions 32 and 33, solve for the unknown variable. Hint: How many degrees is a circle?

32)

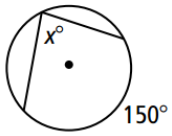


33)

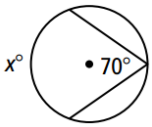


For questions 34 through 40, solve for the unknown variable.

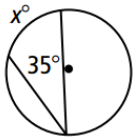
34)



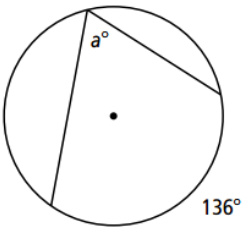
35)



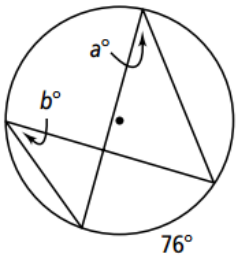
36)



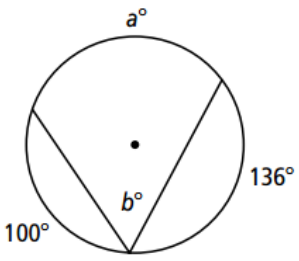
37)



38)



39)



40)