

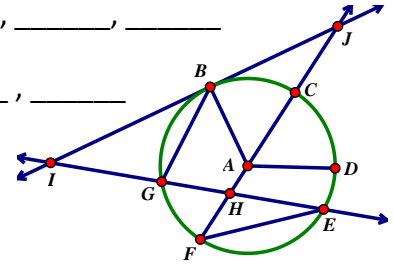
1. Using the diagram to the right, name objects that meet the description.

a. Chords _____, _____, _____, _____

b. Radii _____, _____, _____, _____

c. Central \angle _____, _____, _____

d. Exterior Points _____, _____



2. Jeff wonders if radii and diameters of circles are chords. Are they? Explain.

3. A textbook had the following true and false question.

Two radii always form a diameter. T or F The answer is false.

a) Can you find the counter example to this statement to establish it be false.

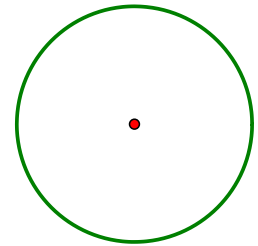
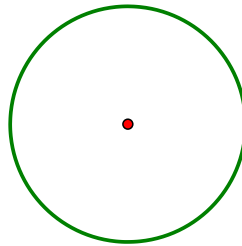
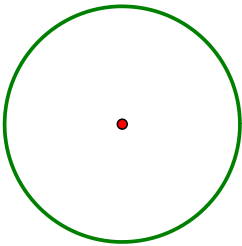
b) Most of students put true. What makes this statement confusing?

4. Draw the following relationships.

a) Tangent line \overleftrightarrow{GE} has a point of tangency at Point F on Circle M.

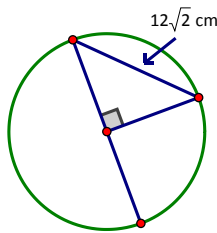
b) Secant line \overleftrightarrow{HT} intersects tangent line \overleftrightarrow{JT} on Circle R.

c) Radius \overline{AB} intersects tangent line \overleftrightarrow{GE} on circle A.



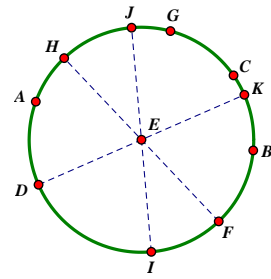
5. Solve for the radius of the circle below.

r = _____

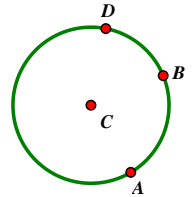


6. Determine whether the arc described is a Major, Minor or Semi-Circle.

- a) From D to I counter-clockwise _____
- b) From C to A counter-clockwise _____
- c) From F to J clockwise _____
- d) From G to I counter-clockwise _____

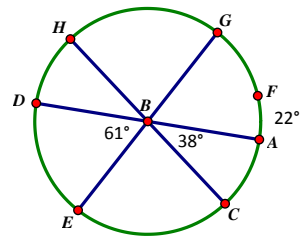


7. The teacher asks a student to write the name for the arc from A to B on the board. Jackie comes up writes \widehat{AB} or \widehat{BA} . Jeff raises his hand and says that he has a different answer. What might his answer be if it is different than Jackie's?



8. Given Circle B with diameters \overline{HC} , \overline{EG} and \overline{DA} .

- a) $m\angle DBH =$
- b) $m\widehat{DCE} =$
- c) $m\widehat{HG} =$
- d) $m\widehat{HCF} =$
- e) $m\angle HBA =$
- f) $m\angle DBA =$



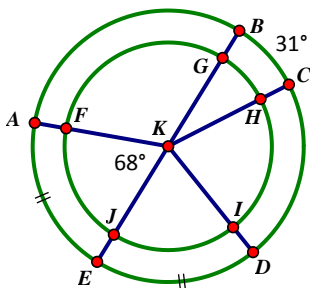
9. Determine the missing information. Given concentric circles with $m\widehat{BC} = 31^\circ$, $m\angle FKJ = 68^\circ$ and \overline{EB} is a diameter.

$m\widehat{ED} =$

$m\angle GKH =$

$m\widehat{ABD} =$

$m\angle AKB =$



10. Given the regular octagon below, determine:

a) $m\angle APB =$

b) $m\angle HPF =$

c) $m\widehat{AE} =$

d) $m\widehat{GEA} =$

e) $m\angle GPF =$

f) $m\angle PAH =$

g) $m\angle PGE =$

h) If HD is 12, GE =

