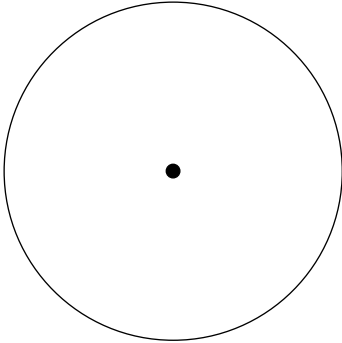


SLO: I can solve problems involving the relationship between chords and diameters. Problems worthy of attack prove their worth by fighting back. —Piet Hein THE ROAD TO WISDOM? Well, it's plain and simple to express. Err and err and err again, but less and less and less. — Piet Hein.

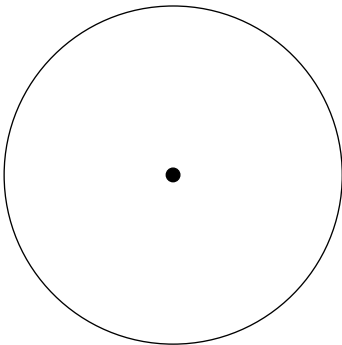
VOCABULARY (have your vocabulary sheet out EVERY day)

(1) TO READ AND DO: Use the website link for Task 8 #1 or your textbook to investigate the relationship between chords and diameters. Drag points to change the values. Complete one sketch that illustrates a special relationship that you found. Be sure to label the points of intersections with their letters and the chord segments with their lengths.



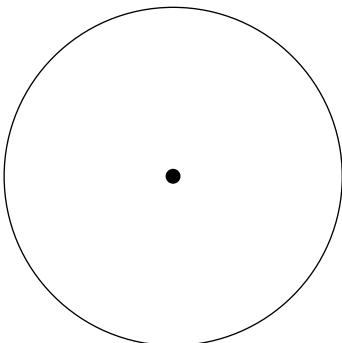
Write a sentence that summarizes the relationship between the measures of the segments of intersecting chords. Include a labeled diagram and an equation showing the relationship.

(2) TO READ AND DO: Use the website link for Task 8 #2 or your textbook to investigate the relationship between chord length and its distance from the center. Drag points to change the values. Complete one sketch that illustrates a special relationship that you found. Be sure to label the points of intersections with their letters and the chord segments with their lengths.



Write a sentence that summarizes the relationship between the measures of the segments of intersecting chords. Include a labeled diagram and an equation showing the relationship.

(3) TO READ AND DO: Draw a picture of a chord bisected by a diameter. Add a line segment to your diagram that connects the center of the circle to an endpoint of the chord (not the diameter).



Write a sentence describing what kind of triangle was formed, and how you know.

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Find the variable or the indicated arc or angle measure. *** Highlighting arcs and angles can be helpful.

