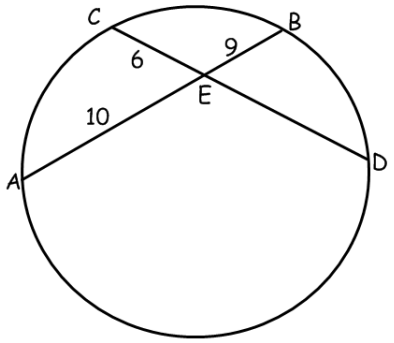
Name:_____ Date:_____ Period:____

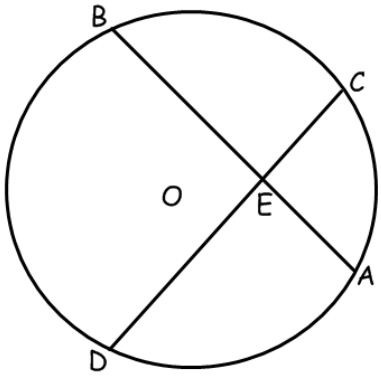
Segment Measures Worksheet

I. Measures of Chords

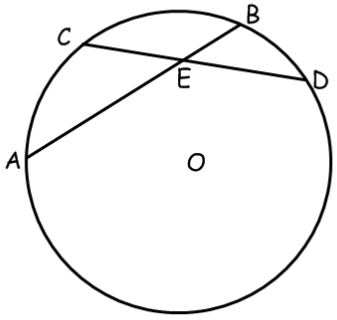
1. In the accompanying diagram, AB and CD are chords of the circle and intersect at E. If AE = 10, EB = 9, and CE = 6, find DE.



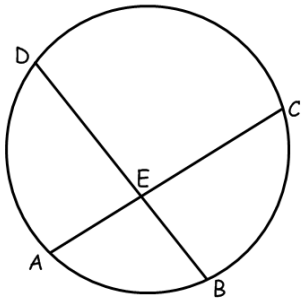
2. In the accompanying diagram of circle O, chords AB and CD intersect at E, AE = x, EB = x+1, CE = x – 1, and ED = 2x. Find AE.



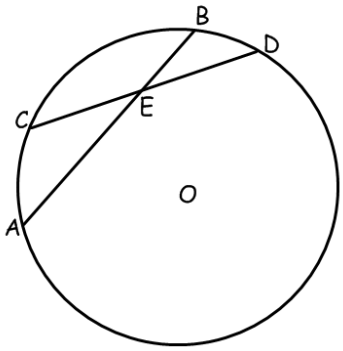
3. In the accompanying diagram, chords AB and CD of circle O intersect at E. If AB = x, EB = x – 6, and CE=ED=4, find AE.



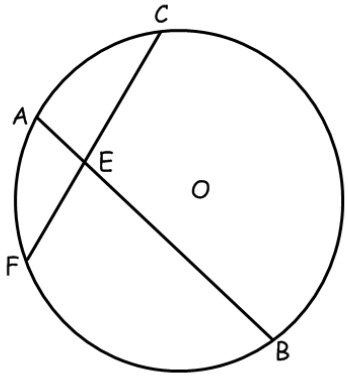
4. In the accompanying diagram of a circle, chords AC and BD intersect at E, DE=6, EB=4, and AE=3. What is EC?



5. In the accompanying diagram of circle O, chords AB and CD intersect at E. If AE x EB = 18 and ED = 6, what is CE?



6. In the accompanying diagram of circle O, chords AB and CF intersect at E. If EB = 16, AE = 5, and CE = 10, find EF.



7. In the diagram below, chords AB and CD intersect at point E in circle O. If AE = 8, EB = 9, CE = x+2, and ED = x-4, find x.