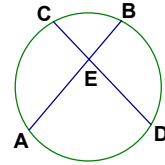


Name _____
Mr. Schlansky

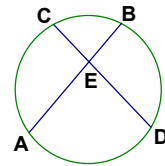
Date _____
Geometry

Intersecting Chords (Segments)

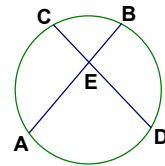
1. If $\overline{AE} = 8$, $\overline{EB} = 3$, $\overline{CE} = 6$, find \overline{ED}



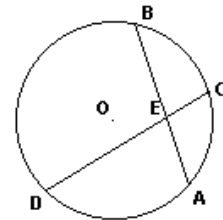
2. If $\overline{AB} = 11$, $\overline{EB} = 5$, $\overline{CE} = 10$, find \overline{ED}



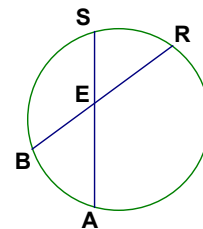
3. If $\overline{ED} = 10$, $\overline{EB} = 2$, $\overline{CE} = 4$, find \overline{AB}



4. In the diagram of circle O , chords \overline{BA} and \overline{CD} intersect at E . $AE = 2$, $EB = x + 3$, $CE = x + 1$, and $ED = x$.



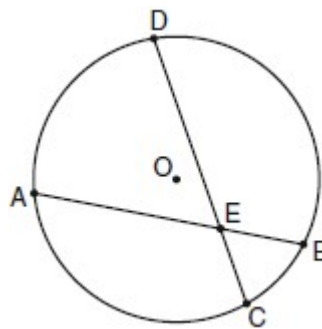
5. If $\overline{BR} = 10$, $\overline{BE} = 4$, $\overline{AE} = 8$, find \overline{ES}



6. In the diagram of circle O below, chord \overline{AB} intersects chord \overline{CD} at E , $DE = 2x + 8$, $EC = 3$, $AE = 4x - 3$, and $EB = 4$.

What is the value of x ?

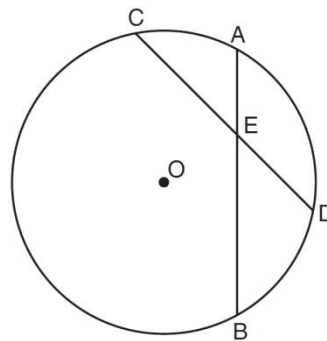
- 1) 1
2) 3.6
3) 5
4) 10.25



7. In the diagram below of circle O , chords \overline{AB} and \overline{CD} intersect at E .

If $CE = 10$, $ED = 6$, and $AE = 4$, what is the length of \overline{EB} ?

- 1) 15
2) 12
3) 6.7
4) 2.4



8. In the diagram below of circle O , chord \overline{AB} bisects chord \overline{CD} at E . If $AE = 8$ and $BE = 9$, find the length of \overline{CE} in simplest radical form.

