

Geometry
Segment Bisector Practice

Draw a figure for each statement.

1. \overline{AB} bisects \overline{CD} at E.

2. \overline{BC} bisects \overline{AD} at E.

3. \overline{BC} is bisected by \overline{AE} at D.

4. \overline{DE} is bisected by \overline{BC} at A.

Given that \overline{AB} is bisected at point C, find each value.

5. If $AC = 8$, find BC

6. If $AB = 18$, find AC

7. If $CB = 10$, find AD

8. If $AB = 11$, find CB

Given that \overline{BC} is bisected by \overline{AD} at E, solve for x .

9. $BE = 3x - 7$ and $EC = 14$

10. $EC = x + 8$ and $EB = 2x - 3$

11. $BE = x + 8$ and $BC = 28$

12. $EC = 2x + 10$ and $BC = x + 44$