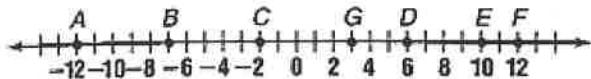


Name _____

Date _____

Midpoints

Use the number line to determine the coordinates of the midpoint for each segment.



1. \overline{DE}

8

2. $\overline{BD} = \frac{1}{2}$

3. $\overline{AC} = -7$

4. $\overline{BF} = \frac{5}{2}$

5. $\overline{CF} = 5$

W, R, and S are points on the number line, where W is the midpoint of \overline{RS} . Using the values given, determine the value of the third point.

6. $R = 4, S = -6 \quad w = -1$

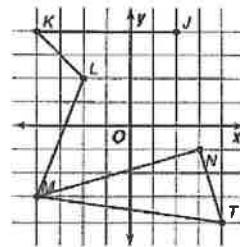
7. $R = 12, W = -3 \quad S = -18$

8. $W = -4, S = 2 \quad R = -10$

9. $S = 11, R = -2 \quad w = \frac{9}{2}$

Use the coordinate plane on the right to determine the coordinates of the midpoint for each segment.

10. $\overline{KJ} \quad (-1, 4)$



11. $\overline{ML} \quad (-3, -\frac{1}{2})$

12. $\overline{MT} \quad (0, -\frac{7}{2})$

Given the endpoints of each segment, determine the coordinates of the midpoint of the segment.

13. A(4, 8) B(10, 14) $(7, 11)$

14. C(-5, 14) D(7, -3) $(1, \frac{11}{2})$

15. E(-5, -9) F(6, 2) $(\frac{1}{2}, -\frac{7}{2})$

16. G(12, -5) H(-7, 9) $(\frac{5}{2}, 2)$

M is the midpoint of \overline{KL} . Given one endpoint and the midpoint, determine the coordinates of the other endpoint.

17. K(2, 6) M(8, 6) $L(14, 6)$

18. L(-5, 8) M(3, 4) $K(11, 0)$

19. M(4, -1) K(0, 3) $L(8, -5)$

20. M(-6, -1) L(-2, -5) $K(-10, 3)$