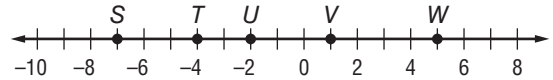


# 1-3 Practice

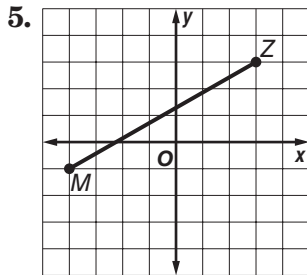
## Distance and Midpoints

Use the number line to find each measure.

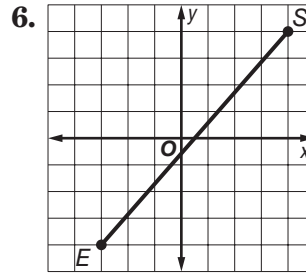


1.  $VW$  4
2.  $TV$  5
3.  $ST$  3
4.  $SV$  8

Find the distance between each pair of points.



$$\sqrt{65} \approx 8.1$$



$$\sqrt{113} \approx 10.6$$

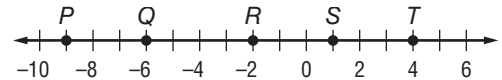
7.  $L(-7, 0), Y(5, 9)$   
15

8.  $U(1, 3), B(4, 6)$   
 $\sqrt{18} \approx 4.2$

9.  $V(-2, 5), M(0, -4)$   
 $\sqrt{85} \approx 9.2$

10.  $C(-2, -1), K(8, 3)$   
 $\sqrt{116} \approx 10.8$

Use the number line to find the coordinate of the midpoint of each segment.



11.  $\overline{RT}$  1
12.  $\overline{QR}$  -4
13.  $\overline{ST}$   $2\frac{1}{2}$
14.  $\overline{PR}$   $-5\frac{1}{2}$

Find the coordinates of the midpoint of a segment with the given endpoints.

15.  $K(-9, 3), H(5, 7)$   
 $(-2, 5)$
16.  $W(-12, -7), T(-8, -4)$   
 $(-10, -5.5)$

Find the coordinates of the missing endpoint if  $E$  is the midpoint of  $\overline{DF}$ .

17.  $F(5, 8), E(4, 3)$   
 $D(3, -2)$
18.  $F(2, 9), E(-1, 6)$   
 $D(-4, 3)$
19.  $D(-3, -8), E(1, -2)$   
 $F(5, 4)$

20. **PERIMETER** The coordinates of the vertices of a quadrilateral are  $R(-1, 3), S(3, 3), T(5, -1)$ , and  $U(-2, -1)$ . Find the perimeter of the quadrilateral. Round to the nearest tenth. **19.6 units**