

**LESSON 1.3 Practice B**  
For use with pages 15–22

- Line  $RS$  bisects  $\overline{PQ}$  at point  $R$ . Find  $RQ$  if  $PQ = 14$  centimeters.
- Line  $JK$  bisects  $\overline{MN}$  at point  $J$ . Find  $MN$  if  $JM = 6\frac{3}{4}$  feet.
- Point  $T$  bisects  $\overline{UV}$ . Find  $UV$  if  $UT = 4\frac{1}{2}$  yards.
- Point  $C$  bisects  $\overline{AB}$ . Find  $CB$  if  $AB = 14.8$  meters.

**In the diagram,  $M$  is the midpoint of the segment. Find the indicated length.**

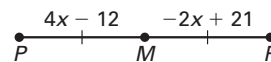
5. Find  $LN$ .



6. Find  $AM$ .



7. Find  $MR$ .



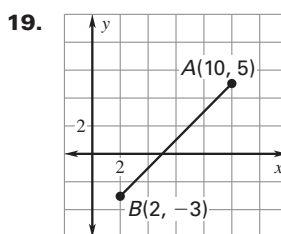
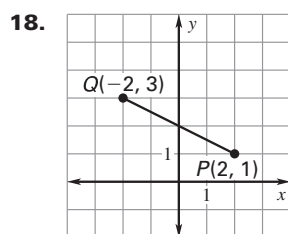
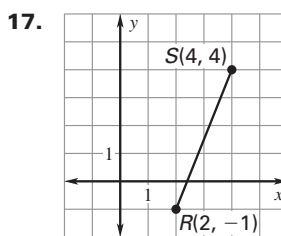
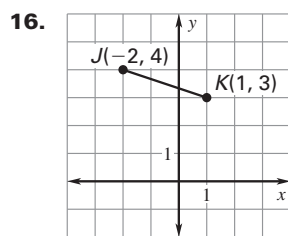
**Find the coordinates of the midpoint of the segment with the given endpoints.**

- $S(4, -1)$  and  $T(6, 0)$
- $L(4, 2)$  and  $P(0, 2)$
- $H(-5, 5)$  and  $I(7, 3)$
- $G(-2, -8)$  and  $H(-3, -12)$

**Use the given endpoint  $R$  and midpoint  $M$  of  $\overline{RS}$  to find the coordinates of the other endpoints.**

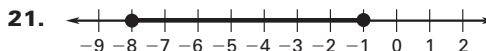
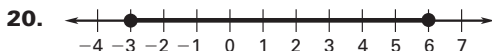
- $R(6, 0)$ ,  $M(0, 2)$
- $R(3, 4)$ ,  $M(3, -2)$
- $R(-3, -2)$ ,  $M(-1, -8)$
- $R(11, -5)$ ,  $M(-4, -4)$

**Find the length of the segment. Round to the nearest tenth of a unit.**



LESSON  
1.3**Practice B** *continued*  
For use with pages 15–22

**Find the length of the segment. Then find the coordinates of the midpoint of the segment.**



**The endpoints of two segments are given. Find each segment length. Tell whether the segments are congruent.**

22.  $\overline{AB}$ :  $A(2, 6)$ ,  $B(0, 3)$

23.  $\overline{RS}$ :  $R(5, 4)$ ,  $S(0, 4)$

$\overline{CD}$ :  $C(-1, 0)$ ,  $D(1, 3)$

$\overline{TU}$ :  $T(-4, -3)$ ,  $U(-1, 1)$

24.  $\overline{KL}$ :  $K(-4, 13)$ ,  $L(-10, 6)$

25.  $\overline{OP}$ :  $O(6, -2)$ ,  $P(3, -2)$

$\overline{MN}$ :  $M(-1, -2)$ ,  $N(-1, -11)$

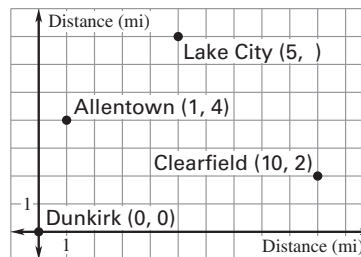
$\overline{QR}$ :  $Q(5, 2)$ ,  $R(1, 5)$

26. **Distances** Your house and the mall are 9.6 miles apart on the same straight road. The movie theater is halfway between your house and the mall, on the same road.

- Draw and label a sketch to represent this situation. How far is your house from the movie theater?
- You walk at an average speed of 3.2 miles per hour. About how long would it take you to walk to the movie theater?

**In Exercises 27–29, use the map. The locations of the towns on the map are: Dunkirk (0, 0), Clearfield (10, 2), Lake City (5, 7), and Allentown (1, 4). The coordinates are given in miles.**

- Find the distance between each pair of towns. Round to the nearest tenth of a mile.
- Which two towns are closest together? Which two towns are farthest apart?
- The map is being used to plan a 26-mile marathon. Which of the following plans is the best route for the marathon? *Explain.*



- Dunkirk to Clearfield to Allentown to Dunkirk
- Dunkirk to Clearfield to Lake City to Allentown to Dunkirk
- Dunkirk to Lake City to Clearfield to Dunkirk
- Dunkirk to Lake City to Allentown to Dunkirk