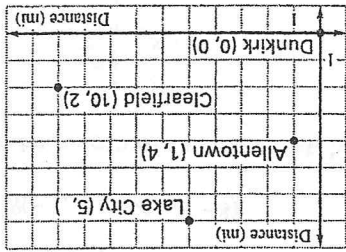




In Exercises 27–29, use the map. The locations of the towns on the map are: Dunkirk (0, 0), Clearfield (10, 2), Lake City (5, 7), and Allentown (1, 4). The coordinates are given in miles.

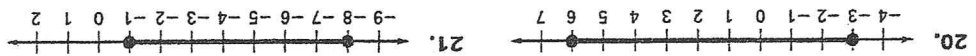


27. Find the distance between each pair of towns. Round to the nearest tenth of a mile.
28. Which two towns are closest together? Which two towns are farthest apart?
29. The map is being used to plan a 26-mile marathon. Which of the following plans is the best route for the marathon? *Explain.*
 - A. Dunkirk to Clearfield to Allentown to Dunkirk
 - B. Dunkirk to Clearfield to Lake City to Allentown to Dunkirk
 - C. Dunkirk to Lake City to Clearfield to Dunkirk
 - D. Dunkirk to Lake City to Allentown to Dunkirk

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.
 - a. Draw and label a sketch to represent this situation. How far is your house from the movie theater?
 - b. 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?

22. $\overline{AB}: A(2, 6), B(0, 3)$
23. $\overline{RS}: R(5, 4), S(0, 4)$
24. $\overline{KL}: K(-4, 13), L(-10, 6)$
25. $\overline{OP}: O(6, -2), P(3, -2)$
26. $\overline{QR}: Q(5, 2), R(1, 5)$
27. $\overline{TU}: T(-4, -3), U(-1, 1)$

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



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

LESSON 1.3
Practice B
continued

For use with pages 15–22

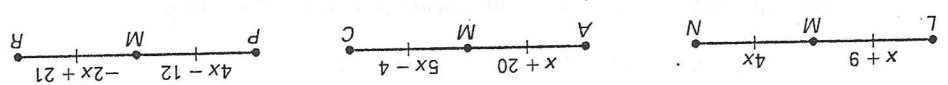
Name _____

Date _____

LESSON 1.3
Practice B
For use with pages 15-22

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

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



- Find LN .
- Find AM .
- Find MR .

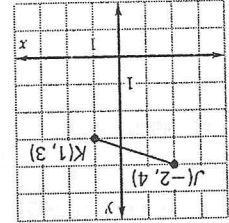
Find the coordinates of the midpoint of the segment with the given endpoints.

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

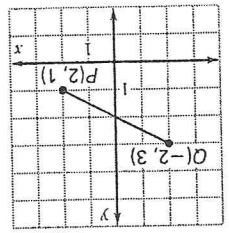
Use the given endpoint R and midpoint M of RS to find the coordinates of the other endpoints.

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

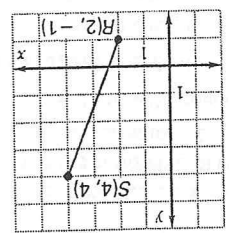
Find the length of the segment. Round to the nearest tenth of a unit.



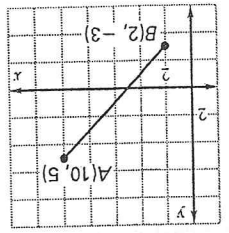
16.



18.



17.



19.