

Name _____

Date _____

LESSON 1.3

Practice B

For use with pages 15–22

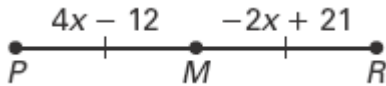
1. Line RS bisects \overline{PQ} at point R. Find RQ if $PQ = 14$ centimeters.
2. Line JK bisects \overline{MN} at point J. Find MN if $JM = 6\frac{3}{4}$ feet.
3. Point T bisects \overline{UV} . Find UV if $UT = 4\frac{1}{2}$ yards.
4. Point C bisects \overline{AB} . Find CB if $AB = 14.8$ meters.

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

5. Find AM .



6. Find MR .



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

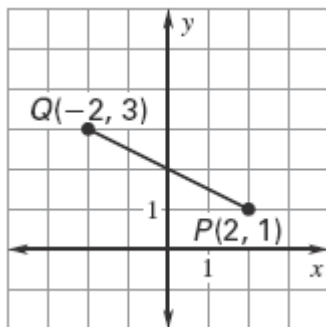
7. $S(4, -1)$ and $T(6, 0)$
8. $G(-2, -8)$ and $H(-3, -12)$

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

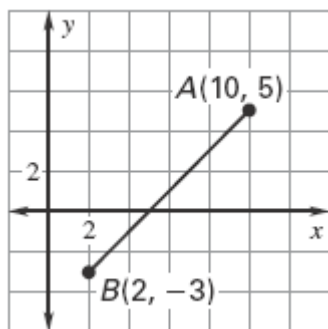
9. $R(6, 0)$, $M(0, 2)$
10. $R(11, -5)$, $M(-4, -4)$

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

- 11.

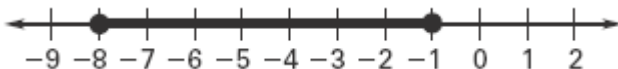


12.



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

13.



14.



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

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

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

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

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

17. **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?