

Geometry Segments Review

Measure the length of the segment to the ~~centimeter~~ **inch**.

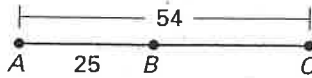


Use the Segment Addition Postulate to find the indicated length.

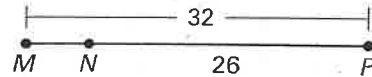
4. Find RT .



5. Find BC .



6. Find MN .



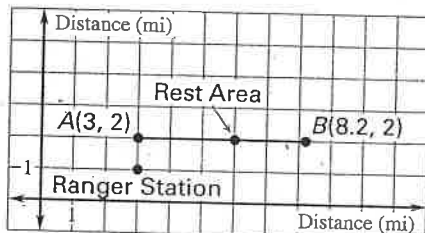
7. Point T bisects \overline{UV} . Find UV if $UT = 4\frac{1}{2}$ yards.

8. Point C bisects \overline{AB} . Find CB if $AB = 14.8$ meters.

9. Line RS bisects \overline{PQ} at point R . Find RQ if $PQ = 14$ centimeters.

10. Line JK bisects \overline{MN} at point J . Find MN if $JM = 6\frac{3}{4}$ feet.

11. **Hiking** On the map, \overline{AB} represents a trail that you are hiking. You start from the beginning of the trail and hike for 90 minutes at a rate of 1.4 miles per hour. How much farther do you need to hike to reach the end of the trail?



Point J is between H and K on \overline{HK} . Use the given information to write an equation in terms of x . Solve the equation. Then find HJ and JK . ←

12. $HJ = 2x$
 $JK = 3x$
 $KH = 25$

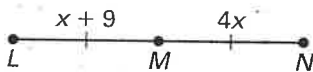
13. $HJ = \frac{x}{4}$
 $JK = 3x - 4$
 $KH = 22$

14. $HJ = 5x - 4$
 $JK = 8x - 10$
 $KH = 38$

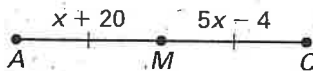
15. $HJ = 5x - 3$
 $JK = x - 9$
 $KH = 5x$

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

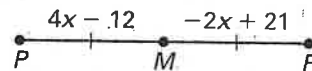
16. Find LN .



17. Find AM .



18. Find MR .



19. **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 from your house?