

Homework 1-2 Segments and Rays

Using the appropriate labels sketch the following relationships.

1. P is the midpoint of \overline{CV} .
2. \overline{LP} intersects \overline{LW} .
3. \overline{BG} and \overline{KT} bisect each other.
4. \overline{WX} is on plane \mathcal{P} . \overline{CX} intersects plane \mathcal{P} .

Given that B is between A and C , find the missing measurements .

5. $AB = \underline{\hspace{2cm}}$, $BC = 19$, $AC = 37$.
6. $AB = 13$, $BC = 41$, $AC = \underline{\hspace{2cm}}$.
7. $AB = 4.21$, $BC = \underline{\hspace{2cm}}$, $AC = 13$.
8. $AB = 11.17$, $BC = 8.93$, $AC = \underline{\hspace{2cm}}$.

Given that B is between A and C , solve for x and find the missing measurements.

9. $AB = x$, $BC = 4x$, $AC = 30$.
10. $AB = x + 7$, $BC = 33$, $AC = 4x + 13$.

$x = \underline{\hspace{2cm}}$, $AB = \underline{\hspace{2cm}}$, $BC = \underline{\hspace{2cm}}$.

$x = \underline{\hspace{2cm}}$, $AB = \underline{\hspace{2cm}}$, $AC = \underline{\hspace{2cm}}$.

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Given that B is between A and C , solve for x and find the missing measurements.

11. $AB = 4$, $BC = 10x - 2$, $AC = (x + 9)4$.

12. $AB = \frac{x}{3}$, $BC = \frac{x}{2}$, $AC = 10$.

$x =$ _____, $BC =$ _____, $AC =$ _____.

$x =$ _____, $AB =$ _____, $BC =$ _____.

Refer to the number line below and find the following.



13. $BK =$ _____.

14. $JT =$ _____.

15. $QE =$ _____.

16. The coordinate of the midpoint of VR .

17. The coordinate of the midpoint of PJ .

18. The coordinate of the midpoint of BN .
