

DAY 1 - 13 HOMEWORK
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Find the length of each segment.

8. \overline{AB}

9. \overline{BD}

10. \overline{AD}

11. \overline{CE}



Use the number line at the right for Exercises 12–14.

12. If $RS = 15$ and $ST = 9$, then $RT = \boxed{\quad}$.



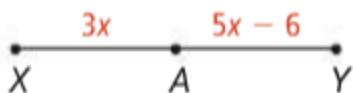
13. If $ST = 15$ and $RT = 40$, then $RS = \boxed{\quad}$.

14. **Algebra** $RS = 8y + 4$, $ST = 4y + 8$, and $RT = 15y - 9$.

- What is the value of y ?
- Find RS , ST , and RT .

19. **Algebra** A is the midpoint of \overline{XY} .

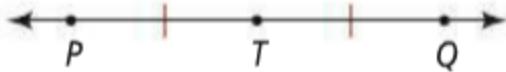
- Find XA .
- Find AY and XY .



Algebra For Exercises 20–22, use the figure below. Find the value of PT .

20. $PT = 5x + 3$ and $TQ = 7x - 9$

21. $PT = 4x - 6$ and $TQ = 3x + 4$



Algebra Use the diagram at the right for Exercises 39 and 40.

39. If $AD = 12$ and $AC = 4y - 36$, find the value of y .
 Then find AC and DC .

