Geometry 1-2 Betweenness of Points

Name: _____   Time› Start: _____   Finish: _____   Total Time = _____

_____   1.   If C is between X and Y with CX = 6 and CY = 20, what is XY?

_____   2.   If C is between X and Y with YX = 16 and CY = 4, what is CX?

_____   3.   If C is between X and Y with YC = 6 and XY = 10, what is XC?

_____   4.   If D is between A and B with AD = 2 and BD = 4, what is AB?

_____   5.   If D is between A and B with AB = 24 and AD = 1.5, what is BD?

_____   6.   If D is between A and B with AD = 2x, BD = 3x, and AB = 20, what is x?

_____   7.   If D is between A and B with AD = 4x, BD = 5x, and AB = 18, what is x?

_____   8.   If D is between A and B with AD = 5x, BD = 10, and AB = 30, what is x?

_____   9.   If D is between A and B with AD = 2x, BD = 4, and AB = 24, what is AD?

_____   10. If T is between N and D with NT = 2n +1, TD = 8, and ND = 19, what is NT?

_____   11. If D is between A and B with AD = 3n – 1 , BD = 2n + 4,
                  and AB = 33, what is BD?

_____   12. If D is between A and B with AD = 5n , BD = 2n – 10,
                  and AB = 39, what is BD?

_____   13. If T is between A and V with AT = 2n + 1 , TV = 3n + 5,
                  and AV = 6n – 8, what is AT?

_____   14. If D is between A and B with AD = 4n , BD = 5n + 2,
                  and AB = 11n - 8, what is AD?

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In 15-19, the answers will be expressions like 2n + 4, not something like 10 cm. Draw a picture of the line segment to help you get the answer.
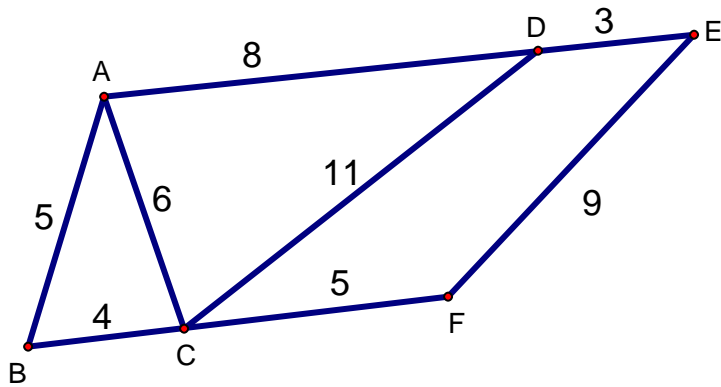
_____ 15. If C is between X and Y with CX = 4n – 4 and CY = n + 10, what is XY?

_____ 16. If C is between X and Y with CY = 4n and XC = 2n + 1, what is XY?

_____ 17. If D is between A and B with AB = 4n + 10 and AD = n – 2 , what is BD?

_____ 18. If V is between R and Y with RY = 30 and VY = n + 10, what is RV?

_____ 19. If V is between R and Y with RY = 20n + 4 and RV = 5n + 2, what is VY?

In the figure above, determine if the two given line segments are congruent (same measurement). Write "congruent" or "not congruent" in the blank. No abbreviations, for I want you to get used to writing the word congruent.

_____ 20. $\overline{AB}$ and $\overline{CF}$

_____ 21. $\overline{AC}$ and $\overline{DE}$

_____ 22. $\overline{AD}$ and $\overline{EF}$

_____ 23. $\overline{FB}$ and $\overline{EF}$

_____ 24. $\overline{AE}$ and $\overline{CD}$

_____ 25. $\overline{AC}$ and $\overline{AD}$

(OVER)