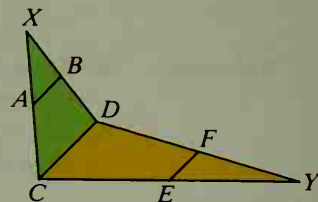


Written Exercises

Points A , B , E , and F are the midpoints of \overline{XC} , \overline{XD} , \overline{YC} , and \overline{YD} . Complete.

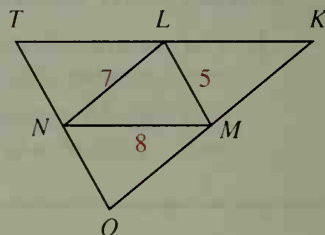
- A**
- If $CD = 24$, then $AB = \underline{\quad? \quad}$ and $EF = \underline{\quad? \quad}$.
 - If $AB = k$, then $CD = \underline{\quad? \quad}$ and $EF = \underline{\quad? \quad}$.
 - If $AB = 5x - 8$ and $EF = 3x$, then $x = \underline{\quad? \quad}$.
 - If $CD = 8x$ and $AB = 3x + 2$, then $x = \underline{\quad? \quad}$.



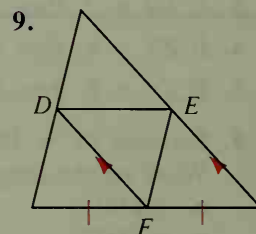
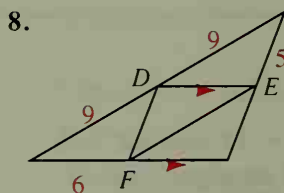
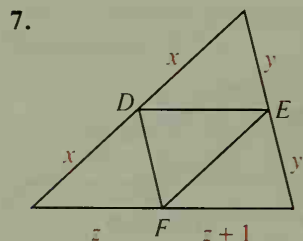
- Given: L , M , and N are midpoints of the sides of $\triangle TKO$. Find the perimeter of each figure.

- $\triangle TKO$
- $\triangle LMK$
- $\square TNML$
- quad. $LNOK$

- Name all triangles congruent to $\triangle TNL$.
 - Suppose you are told that the area of $\triangle NLM$ is 17.32 cm^2 . What is the area of $\triangle TKO$?

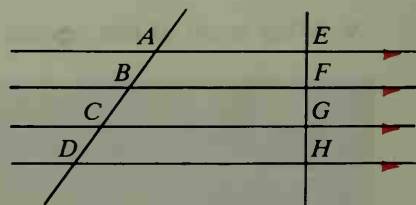


Name all the points shown that *must* be midpoints of the sides of the large triangle.



\overleftrightarrow{AE} , \overleftrightarrow{BF} , \overleftrightarrow{CG} , and \overleftrightarrow{DH} are parallel, with $EF = FG = GH$. Complete.

- If $AB = 5$, then $AD = \underline{\quad? \quad}$.
- If $AC = 12$, then $CD = \underline{\quad? \quad}$.
- If $AB = 5x$ and $BC = 2x + 12$, then $x = \underline{\quad? \quad}$.
- If $AC = 22 - x$ and $BD = 3x - 22$, then $x = \underline{\quad? \quad}$.



Exs. 10-15

- B**
- If $AB = 15$, $BC = 2x - y$, and $CD = x + y$, then $x = \underline{\quad? \quad}$ and $y = \underline{\quad? \quad}$.
 - If $AB = 12$, $BC = 2x + 3y$, and $BD = 8x$, then $x = \underline{\quad? \quad}$ and $y = \underline{\quad? \quad}$.