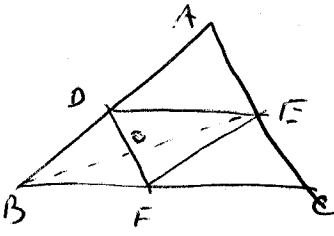


4



$\triangle ABC \rightarrow$ מלבן DE , $\triangle ABC \rightarrow$ מלבן DE 1c
 \Downarrow
 $FE \parallel BD$ \Downarrow
 $DE \parallel BF$

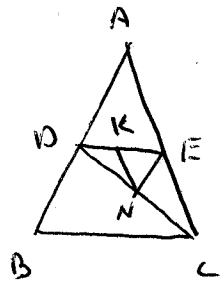
מלבן DE \rightarrow $DE = BF$ ו- $BD = FE$
 מכאן $DE = BF$ ו- $BD = FE$

18 המלבן DE \Leftarrow $DE = BF = 5$
 $FE = BD = 4$

$BD = OE$, $DO = \frac{1}{2} DF \Leftarrow$ כי DO הוא תלולית DF ו- DE \parallel BC

\Downarrow
 $\triangle ABE$ \rightarrow מלבן DO
 \Downarrow
 $DO = \frac{1}{2} AE = \frac{1}{2} EC = \frac{1}{4} AC = 6.5$

7

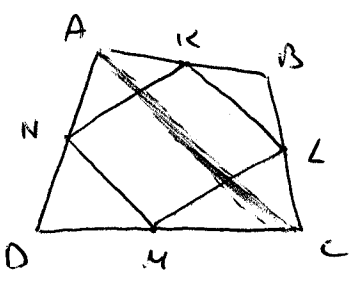


$\triangle DEC \rightarrow$ מלבן KN 1c
 $\triangle ADC \rightarrow$ " " ME
 \Downarrow
 $KN = \frac{1}{2} EC$
 $ME = \frac{1}{2} AD$

(כי $AD = EC$) \rightarrow מלבן DE \rightarrow $KN = ME$
 \Downarrow
 $KN = ME$

$EN = KN = \frac{1}{2} EC = \frac{1}{4} AC = \frac{1}{4} \cdot 8 = 2$ 2
 $KE = \frac{1}{2} DE = \frac{1}{4} BC = \frac{1}{4} \cdot 6 = 1.5$
 $KE + KN + ME = 1.5 + 2 + 2 = 5.5$

10

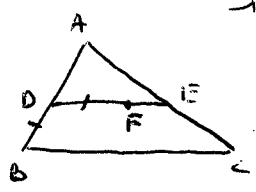


$\triangle ABC \rightarrow$ מלבן KL
 \Downarrow
 $KL = \frac{1}{2} AC$, $KL \parallel AC$
 $\triangle ADC \rightarrow$ מלבן NM
 \Downarrow
 $NM = \frac{1}{2} AC$, $NM \parallel AC$

$KL = NM$ \Downarrow $KL \parallel NM$

מלבן $KLNM$ \rightarrow $KL = NM$ ו- $KN = LM$ \rightarrow $KLNM$ מלבן

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מלבן DE \rightarrow $DE = BF$ ו- $BD = FE$
 \Downarrow
 $2 \cdot BD + 2 \cdot EC > 2(DF + FE)$
 $(\text{כי } DF = BD)$
 $2BD + 2EC > 2DF + 2FE$
 $2EC > 2FE \quad | :2$
 $EC = FE$