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$\because DE \parallel BC$

$\therefore \triangle ADN \backsim \triangle ABM$

$\triangle ANE \backsim \triangle AMC$

$$\frac{AN}{AM} = \frac{AD}{AB} = \frac{DN}{BM}$$

$$\frac{AN}{AM} = \frac{AE}{AC} = \frac{NE}{MC}$$

$\textcircled{2} \because AN = 2NM$

$\therefore \dfrac{AN}{AM} = \dfrac{2}{3}$ 故两组相似的相似比

均为 $\dfrac{2}{3}$

$\therefore \dfrac{S_{\triangle ADN}}{S_{\triangle ABM}} = \left(\dfrac{2}{3}\right)^2 = \dfrac{4}{9}$; $\dfrac{S_{\triangle ANE}}{S_{\triangle AMC}} = \left(\dfrac{2}{3}\right)^2 \dfrac{4}{9}$

设 $S_{\triangle ADN} = 4k$ $S_{\triangle ANE} = 4t$

$\therefore S_{\triangle ABM} = 9k$ $S_{\triangle AMC} = 9t$

$\therefore S_{\triangle ABC} = S_{\triangle ABM} + S_{\triangle AMC} = 9k + 9t$

$\textcircled{2} \because S_{\triangle DNM} = \dfrac{1}{2} S_{\triangle ADN}$ (等高不等底)

$S_{\triangle MNE} = \dfrac{1}{2} S_{\triangle ANE}$ 同理

$\therefore S_{\triangle DNM} = 2k$; $S_{\triangle MNE} = 2t$

$\therefore S_{\triangle MDE} = S_{\triangle DMN} + S_{\triangle MNE} = 2k + 2t$

$\therefore \dfrac{S_{\triangle DME}}{S_{\triangle ABC}} = \dfrac{2k+2t}{9k+9t} = \dfrac{2(k+t)}{9(k+t)} = \dfrac{2}{9}$

对海不？

6. 在四边形ABCD中，AD∥BC，AB与CD不平行，根据图中数据，若BA、CD延长后交于点 M ，则 $\triangle MBC$ 的周长为 _____ 。