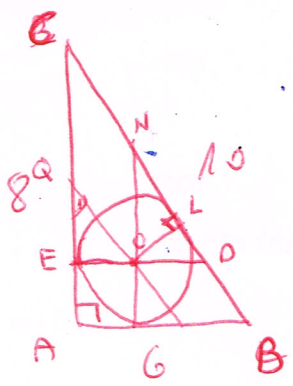


2.68



(S.S.) $\Delta QEO \sim \Delta NLO$

נתון: $AB=6$, $AC=8$, $BC=10$

$$\frac{AC \cdot AB}{2} = r \cdot p$$

$$\frac{6 \cdot 8}{2} = r \left(\frac{6+8+10}{2} \right) \rightarrow \boxed{r=2}$$

- $(CB \parallel QO) \Rightarrow \angle EQO = \angle C$

$(CE \parallel NO) \Rightarrow \angle C = \angle ONL$

$\angle QEO = 90^\circ = \angle ONL$

$\frac{AB \cdot AC}{2} = \frac{h \cdot BC}{2}$
 נמצא את הارتفاع h של ΔABC
 $\boxed{h=4.8}$

$\frac{OL}{AB} = \frac{2}{6.8} = \frac{1}{2.4}$ נתון $\Delta NOD \sim \Delta CBA$

$S_{NOD} = \frac{24}{(2.4)^2} \leftarrow S_{ABC} = 24 \cdot \left(\frac{1}{2.4}\right)^2$

$S_{NOD} = \frac{24}{(2.4)^2} = \frac{OL \cdot ND}{2} = \frac{2 \cdot ND}{2} \rightarrow \boxed{ND = \frac{25}{6}}$