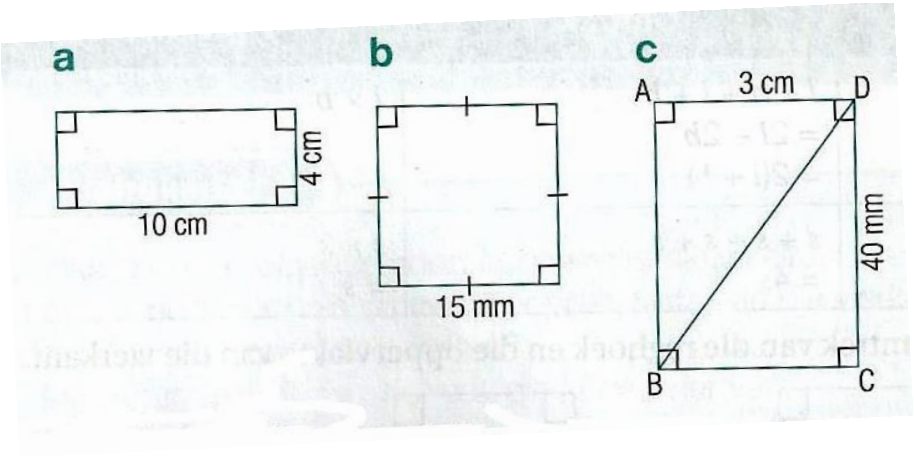
Oppervlak en Omtrek

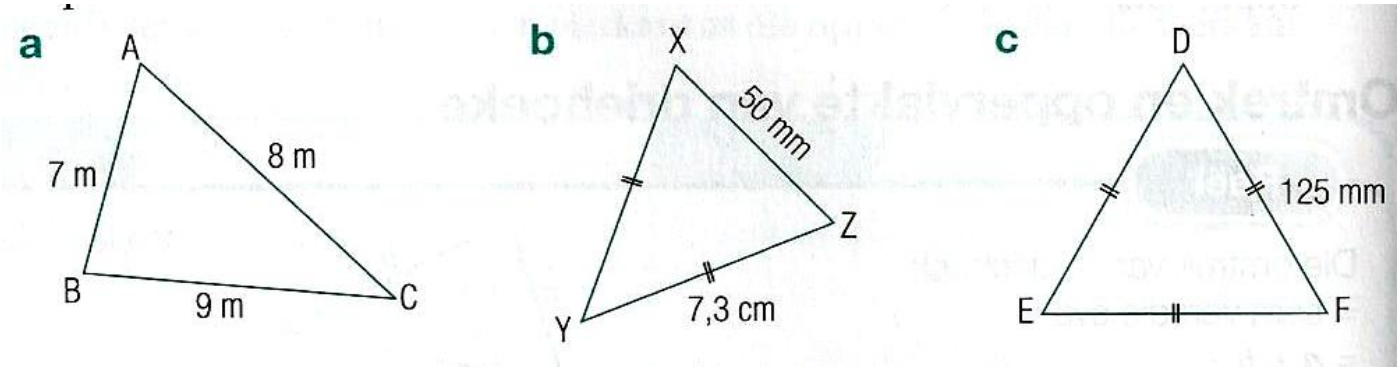
1. Bereken die omtrek van die volgende vierhoeke.



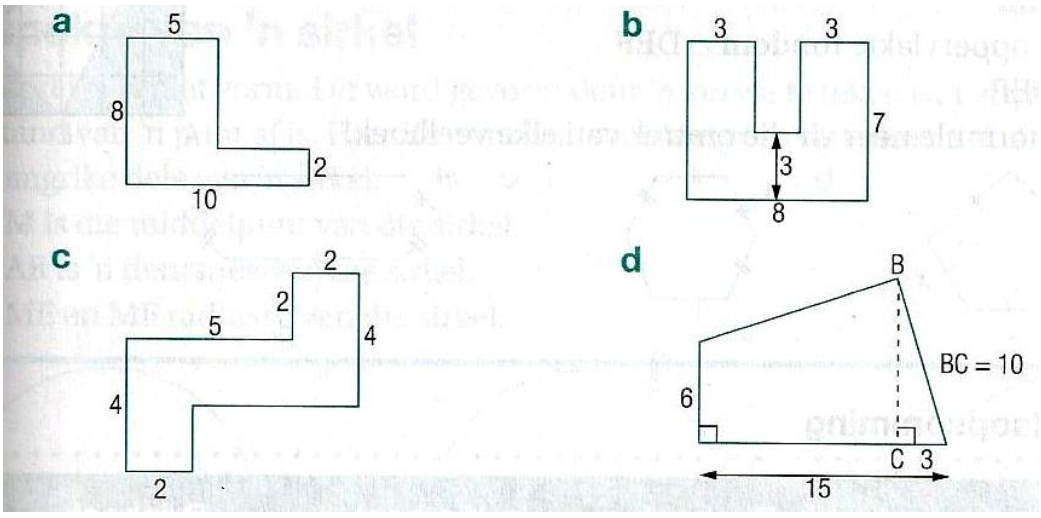
1.1Bereken nou die oppervlakte can die vierhoeke in vraag1.

1.2Kyk na die berekening en skryf die oppervlakte van ΔBCD in vraag 1c neer.

2. Bepaal die omtrek van die driehoeke.



3.Bepaal die oppervlakte van elk van die veelhoeke. Alle eenhede is in cm. Teken die sketse oor en verdeel die vorms in reghoeke en driehoeke.



MEMO

1.a. $Omtrek = 2\ell + 2b = 2(10) + 2(4) = 20 + 8 = 28cm$

b. $Omtrek = 45 = 4(15) = 60mm(of\ 6cm)$

c. $Omskep\ mm\ na\ cm = 40mm = 4cm$

$Oppervlak = 2\ell + 2b = 2(4) + 2(3) = 14cm$

1.1a. $Opp = \ell \times b = 10 \times 4 = 40cm^2$

b. $Opp = 5 \times 5 = 15 \times 15 = 225mm^2$

c. $Opp = \ell \times b = 4 \times 3 = 12cm^2$

1.2 $Die\ oppervlakte\ van\ \Delta BCD\ is\ die\ helfde\ van\ die\ reghoek$

$\therefore Opp\ of\ \Delta BCD = 6cm^2$

2.a. $Omtrek = a + b + c$

$= 9 + 8 + 7$

$= 24m$

b. $Omskep\ mm\ na\ cm = 50mm = 5cm$

$Omtrek = a + b + c$

$= 9 + 8 + 7$

$= 24m$

c. $Omtrek = d + e + f$

$= 125 + 125 + 125$

$= 375mm\ of\ 37.5cm$

3.a. $Opp\ I = \ell \times b$

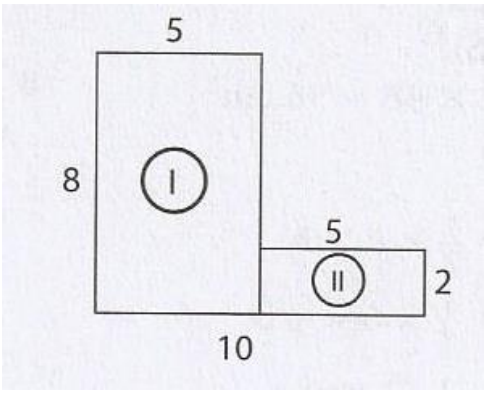
$= 8 \times 5$

$= 40cm^2$

$Opp\ II = \ell \times b$

$= 5 \times 2$

$= 10cm^2$



$\therefore Totale\ Opp = 40 + 10 = 50cm^2$

b. $Opp\ I = \ell \times b$

$= 4 \times 3$

$= 12cm^2$

$Opp\ II = \ell \times b$

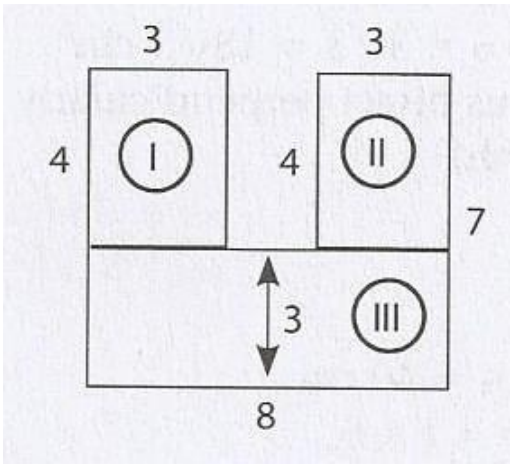
$= 4 \times 3$

$= 12cm^2$

$Opp\ III = \ell \times b$

$= 8 \times 3$

$= 24cm^2$



$\therefore Totale\ Opp = 12 + 12 + 24 = 48cm^2$

c. $Opp\ I = \ell \times b$

$= 4 \times 2$

$= 8cm^2$

$Opp\ II = \ell \times b$

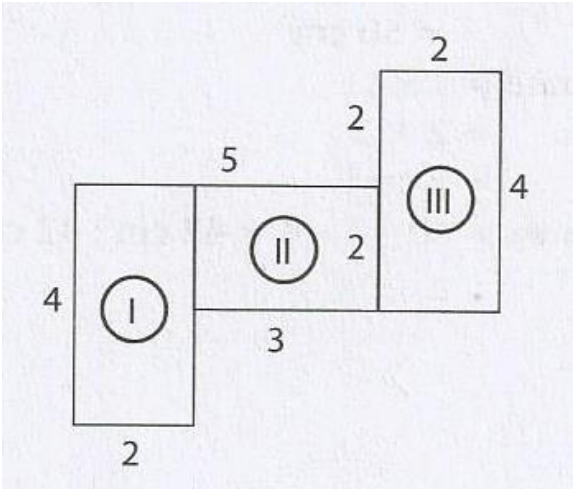
$= 3 \times 2$

$= 6cm^2$

$Opp\ III = \ell \times b$

$= 4 \times 2$

$= 8cm^2$



$\therefore Totale\ Opp = 8 + 6 + 8 = 22cm^2$

d. $Opp\ I = \frac{1}{2} \times b \times h$

$= \frac{1}{2} \times 12 \times 4$

$= 24cm^2$

$Opp\ II = \ell \times b$

$= 12 \times 6$

$= 72cm^2$

$Opp\ I = \frac{1}{2} \times b \times h$

$= \frac{1}{2} \times 3 \times 10$

$= 15cm^2$

$\therefore Totale\ Opp = 24 + 72 + 15 = 111cm^2$