



Wiskunde:

Meetkunde: 2D figure

Oppervlak: Inleiding

Graad 7

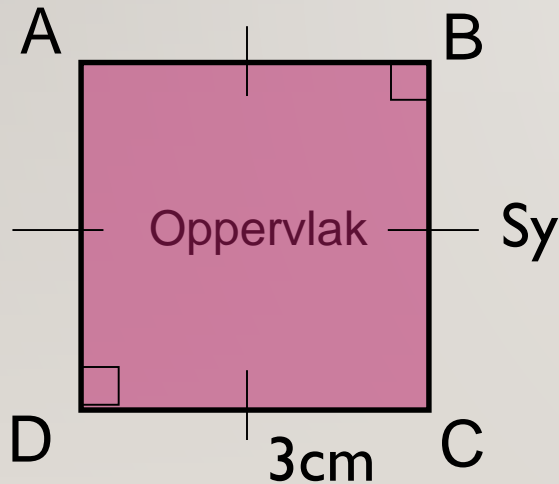
Oppervlak

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Oppervlak: Die gebied wat deur die omtrek begrens word.

Oppervlak se antwoord word altyd (eenheid)² gegee!

- Vierkant: Opp = sy x sy

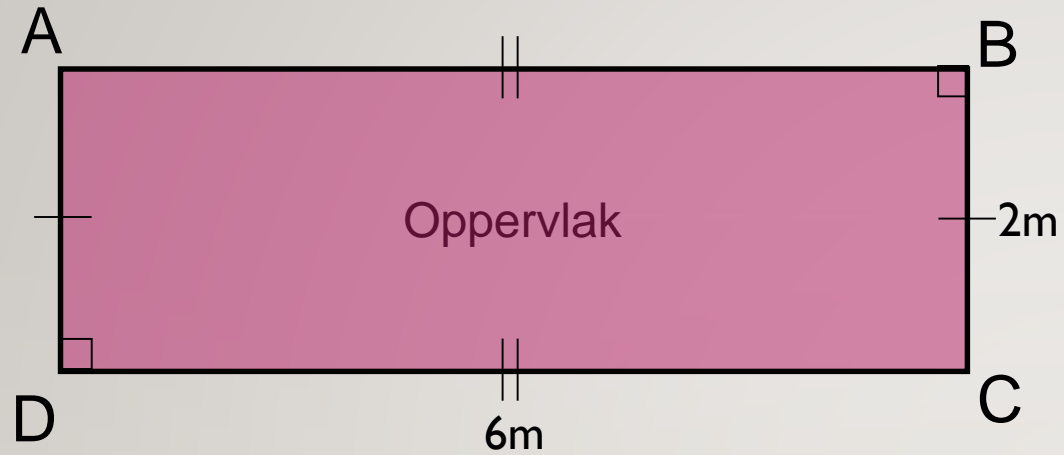


$$\begin{aligned}\text{Opp } \square &= \text{sy} \times \text{sy} \\ &= 3\text{cm} \times 3\text{cm} \\ &= 9\text{cm}^2\end{aligned}$$

of

$$\begin{aligned}\text{Opp } \square &= \text{sy}^2 \\ &= (3\text{cm})^2 \\ &= 9\text{cm}^2\end{aligned}$$

- Reghoek: Opp Reg \sphericalangle = lengte x breedte

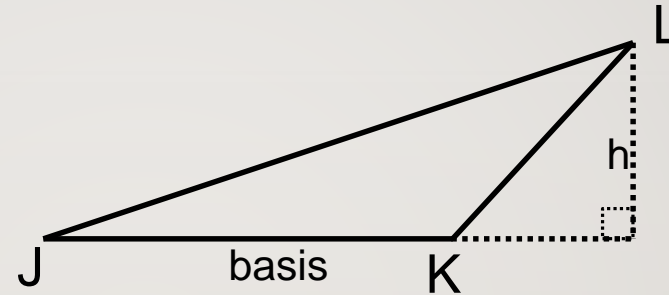
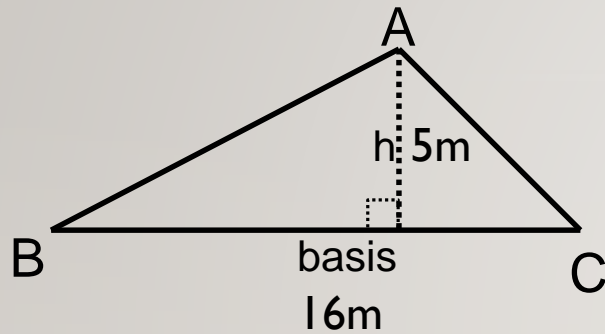


$$\begin{aligned} \text{Opp Reg}\sphericalangle &= \text{lengte} \times \text{breedte} \\ &= 6\text{m} \times 2\text{m} \\ &= 12\text{m}^2 \end{aligned}$$

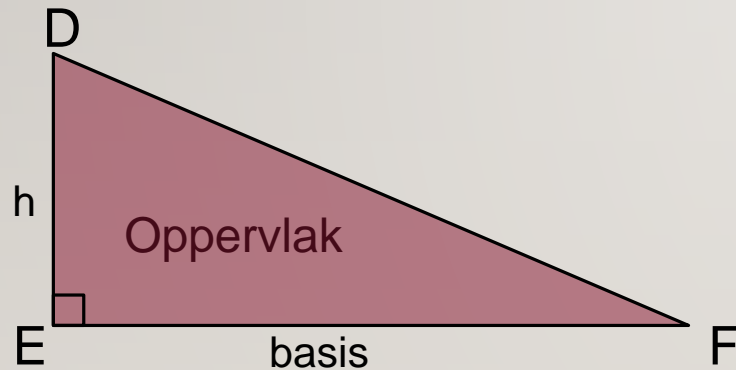
- Driehoeke: $\text{Opp}\Delta = \frac{1}{2} \times \text{basis} \times \text{loodregte hoogte}$

Hoe weet ek watter sy is die basis?

Die basis is altyd die sy wat hoogte met 'n 90° hoek ontmoet.



Die oppervlak formule vir 'n driehoek werk vir enige driehoek, ongeag hoe die driehoek lyk.



$$\begin{aligned} \text{Opp } \Delta ABC &= \frac{1}{2} \times \text{basis} \times \text{loodregte hoogte} \\ &= \frac{1}{2} \times b \times \perp h \\ &= \frac{1}{2} \times 16\text{m} \times 5\text{m} \\ &= 8\text{m} \times 5\text{m} \\ &= 40\text{m}^2 \end{aligned}$$

Afkortings