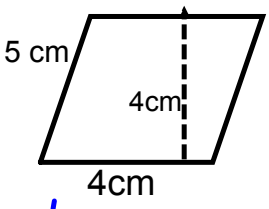
Devoirs

Un élève dit que l'aire de ce parallélogramme est de $20cm^2$. Explique l'erreur de cet élève.



$A_{\square} = bh$

$= 4cm(4cm)$

$= 16cm^2$

90° souvent

base

Le base et le hauteur font 90°.

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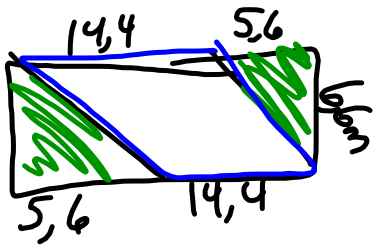


a)

$A_{\square} = bh$

$= 14,4m\,(6,6m)$

$= 95,04\,m^2$

base 5,6 + 14,4 = 20,0

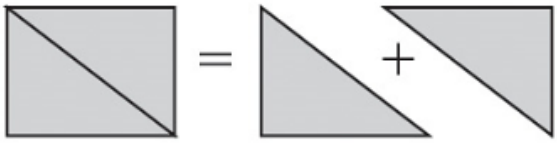
B) $A_{\square} = bh$

$= 20m\,(6,6m)$

$= 132\,m^2$

C) $132,00\,m^2 - 95,04\,m^2 = 36,96$

Si tu traces une diagonale dans un paralléélogramme, tu obtiens deux triangles congruents.

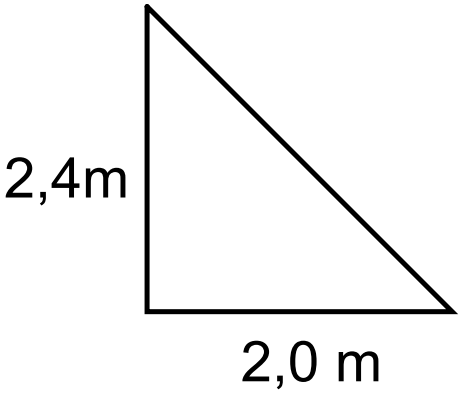


Des triangles contruents ont la mêême aire.

$$A_{\Delta} = \frac{bh}{2}$$

$$A_{\Delta} = \frac{1}{2}bh$$

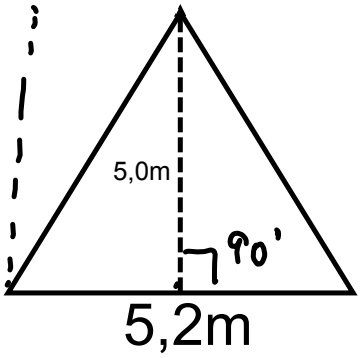
L'aire d'un triangle



$$A_\Delta = \frac{bh}{2}$$

$$A_\Delta = \frac{2{,}0\text{m}\,(2{,}4\text{m})}{2}$$

$$= \frac{4{,}8\text{m}^2}{2} = \boxed{2{,}4\text{m}^2}$$



$$A_\Delta = \frac{bh}{2}$$

$$= \frac{5,2m(5,0m)}{2}$$

$$= \frac{26m^2}{2} = \boxed{13m^2}$$

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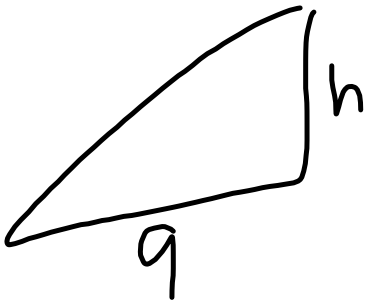
5a) $A = 18m^2$



$A_\Delta = \frac{bh}{2}$

$2(18m^2) = \left(\frac{9m\,h}{2}\right)^2$

$\frac{36m^2}{9m} = \frac{9m\,h}{9m}$

$4m = h$