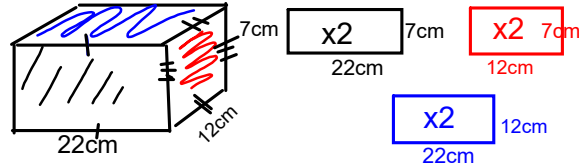


L'aire de la surface total d'un objet est la somme des aires de ses faces.

### Prisme rectangulaire

1) Dessin et le développement (avec unités)



2) (plan)  $AST = 2 \times A_{\square} + 2 \times A_{\square} + 2 \times A_{\square}$

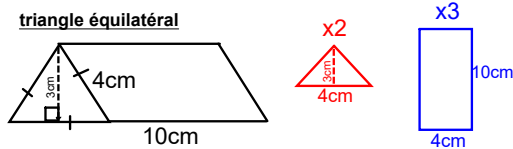
3)(formule)  $AST = 2 \times b \times h + 2 \times b \times h + 2 \times b \times h$

4)(travail)  $AST = 2 \times 22 \text{cm} \times 7 \text{cm} + 2 \times 12 \text{cm} \times 7 \text{cm} + 2 \times 22 \text{cm} \times 12 \text{cm}$

4) (réponse)  $AST = 308 \text{cm}^2 + 168 \text{cm}^2 + 528 \text{cm}^2$   
 $= 1004 \text{cm}^2$

### prisme à base triangulaire

La forme du triangle décide combien de différent rectangles il y a dans la prisme.



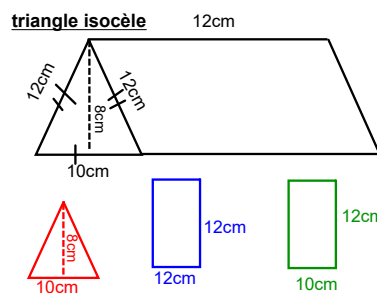
$AST = 2 \times A_{\triangle} + 3 \times A_{\square}$

$AST = 2 \times b \times h + 2 + 3 \times b \times h$

$AST = 2 \times 4 \text{cm} \times 3 \text{cm} + 2 + 3 \times 4 \text{cm} \times 10 \text{cm}$

$AST = 12 \text{cm}^2 + 120 \text{cm}^2$

$AST = 132 \text{cm}^2$



$AST = 2 \times A_{\triangle} + 2 \times A_{\square} + 1 \times A_{\square}$

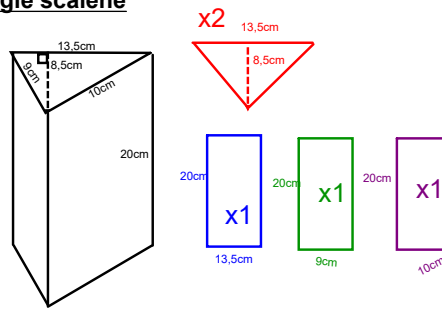
$AST = 2 \times b \times h + 2 + 2 \times b \times h + b \times h$

$AST = 2 \times 10 \text{cm} \times 8 \text{cm} + 2 + 2 \times 12 \text{cm} \times 12 \text{cm} + 10 \text{cm} \times 12 \text{cm}$

$AST = 80 \text{cm}^2 + 288 \text{cm}^2 + 120 \text{cm}^2$

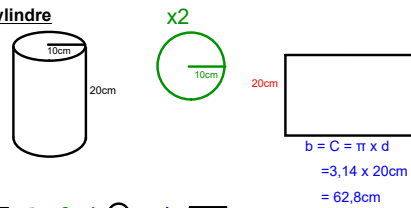
$AST = 488 \text{cm}^2$

triangle scalène



$$\begin{aligned}
 \text{AST} &= 2 \times A_{\triangle} + 1 \times A_{\square} + 1 \times A_{\square} + 1 \times A_{\square} \\
 \text{AST} &= 2 \times b \times h \div 2 + b \times h + b \times h + b \times h \\
 \text{AST} &= 2 \times 13,5\text{cm} \times 8,5\text{cm} \div 2 + 13,5\text{cm} \times 20\text{cm} + 9\text{cm} \times 20\text{cm} + 10\text{cm} \times 20\text{cm} \\
 \text{AST} &= 114,75\text{cm}^2 + 270\text{cm}^2 + 180\text{cm}^2 + 200\text{cm}^2 \\
 \text{AST} &= 764,75\text{cm}^2
 \end{aligned}$$

Cylindre



$$\begin{aligned}
 \text{AST}_{\text{cyl}} &= 2 \times A_{\text{c}} + A_{\text{r}} \\
 \text{AST} &= 2 \times \pi \times r \times r + b \times h \\
 \text{AST} &= 2 \times 3,14 \times 10\text{cm} \times 10\text{cm} + 62,8\text{cm} \times 20\text{cm} \\
 \text{AST} &= 628\text{cm}^2 + 1256\text{cm}^2 \\
 \text{AST} &= 1884\text{cm}^2
 \end{aligned}$$

$$C = \pi \times d$$

$$A = \pi \times r^2 \text{ ou } \pi \times r \times r$$

## Attachments

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Triangle, comment trouver l'aire.notebook