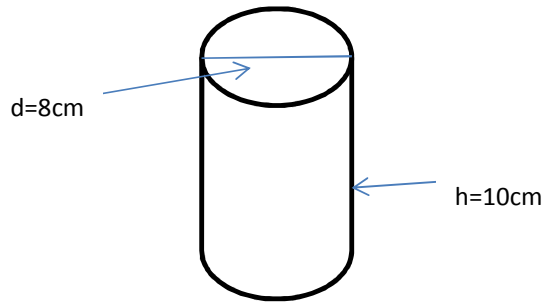
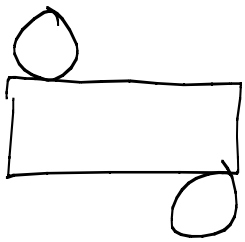
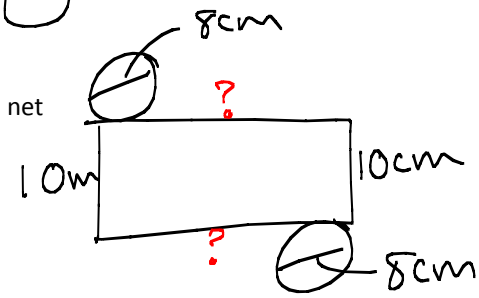
How to find the surface area of a cylinder



1. Draw the net.



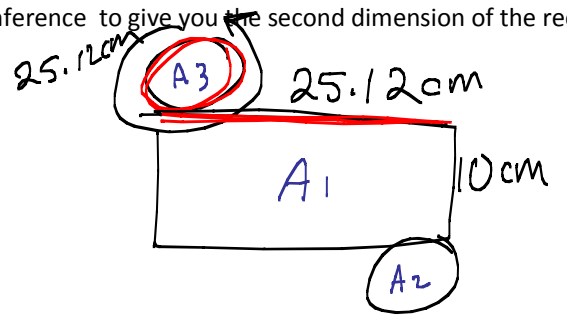
2. Label any given dimensions on the net



3. Find the circumference of the circle $C = 2\pi r$ OR $C = d\pi$

$C = d\pi$
$= 8 \times 3.14 = \boxed{25.12cm}$

4. Use the circumference to give you the second dimension of the rectangle.



5. Find the area of the rectangle and circles $A = lxw$ and $A = \pi r^2$

$A_1 = l \times w$
$= 25.12 \times 10$
$\boxed{= 251.2cm^2}$

$A_2 = \pi r^2$
$= 3.14 \times 4^2$
$= 3.14 \times 16$
$\boxed{= 50.24cm^2}$

$r = \frac{d}{2} = \frac{8}{2} = 4$

$\boxed{A_3 = 50.24cm^2}$

6. Add up the 3 areas.

$A_T = 251.2cm^2 + 50.24cm^2 + 50.24cm^2$

$\boxed{= 351.68\ cm^2}$

Your Turn: