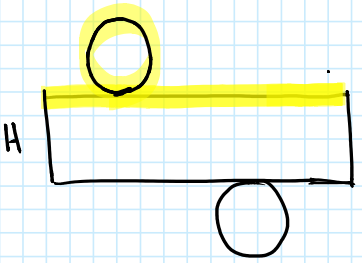
Surface Area of Cylinders

May-06-19 8:35 AM

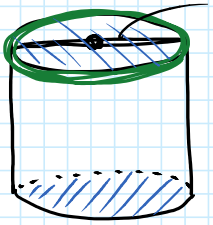
Recall: A cylinder is made up of 3 faces:

- 2 identical circles
- 1 rectangle



* The circumference of the circle and the rectangle length are the same!

Ex. Find the surface area:



2 circles:

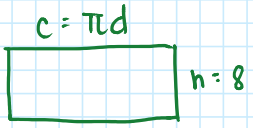
$A = \pi r^2$ first!

$A = 3.14 \times 5^2$

$A = 3.14 \times 25$

$A = 78.53$ $(\times 2)$ $= 157.06\ m^2$

1 rectangle:



$C = \pi d$

$C = 3.14 \times 10$

$C = 31.4\ m$

$A = L \cdot w$

$A = 31.4 \times 8$

$A = 251.28\ m^2$

$SA = 157.06 + 251.28$

$SA = 408.34\ m^2$