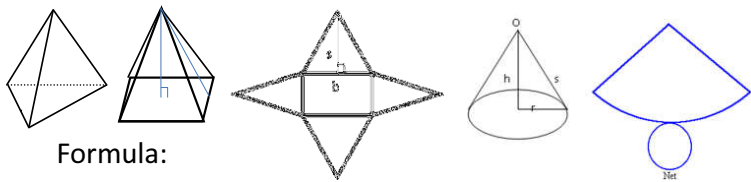


Unit 5

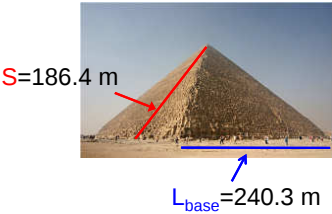
L4 Areas of Pyramids and Cones



	A_L (Lateral Area)	$A_T = A_L + A_b$ (Area total)
Pyramid	$\frac{P_b S}{2}$	$\frac{P_b S}{2} + A_b$
Cone	$\pi r s$	$\pi r s + \pi r^2$

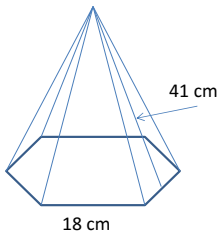
	A_L (Lateral Area)	$A_T = A_L + A_b$ (Area total)
Pyramid	$\frac{P_b S}{2}$	$\frac{P_b S}{2} + A_b$

Ex 1: Find the surface area of the pyramid of Giza.



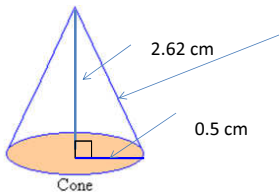
	A_L (Lateral Area)	$A_T = A_L + A_b$ (Area total)
Pyramid	$\frac{P_b S}{2}$	$\frac{P_b S}{2} + A_b$

Ex 2: Calculate the Lateral Area



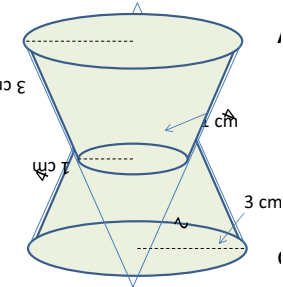
	A_L (Lateral Area)	$A_T = A_L + A_b$ (Area total)
Cone	$\pi r s$	$\pi r s + \pi r^2$

Ex 3: Find the total surface area of the cone.



	A_L (Lateral Area)	$A_T = A_L + A_b$ (Area total)
Cone	$\pi r s$	$\pi r s + \pi r^2$

Ex 4: Calculate total area both bases included



Ex 5: A factory makes cement blocks in the shape of truncated square base pyramids. They want to paint the lateral faces and the upper base of these blocks. How many cans of paint will be required if each can on paint covers 40 m² . They will make 1000 blocks?

$A_T = A_L \text{ BIG PYR} - A_L \text{ Small pyr} + A_{\text{upper base}}$

