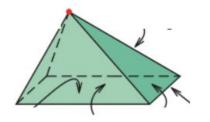
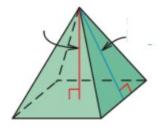
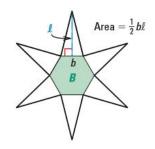
Pyramid:



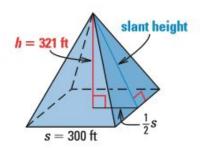


Regular Pyramid:





1. Use the diagram to find the area of each lateral face of this regular pyramid



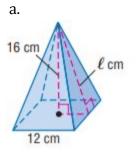
Regular Pyramid:

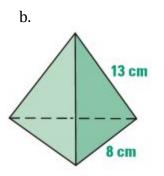
$$S = B + \frac{1}{2}Pl$$

B

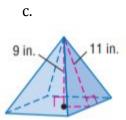
Where B is the area of the base, P is the perimeter of the base, and l is the slant height

2. Find the surface area of the regular pyramid below:

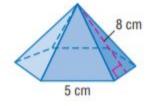


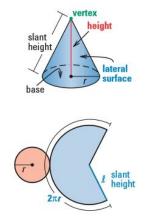


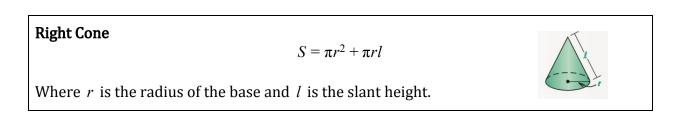
12.3 Surface Area of Pyramids and Cones Geometry CP



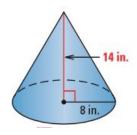
3. Find the surface area of the regular pyramid below:



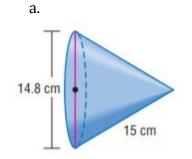




4. Find the slant height of the cone below:

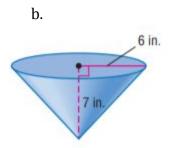


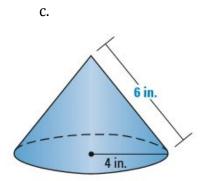
5. Find the surface area of the cone below:



Cone:

12.3 Surface Area of Pyramids and Cones Geometry CP





12.3 Surface Area of Pyramids and Cones Geometry CP

Solid	Model	Lateral Area	Surface Area
prism	h B B	L = Ph	S = L + 2B or S = Ph + 2B
cylinder	r h	$L = 2\pi rh$	S = L + 2B or $S = 2\pi rh + 2\pi r^2$
pyramid	P	$L = \frac{1}{2}P\ell$	$S = \frac{1}{2}P\ell + B$
cone	e	$L = \pi r \ell$	$S = \pi r\ell + \pi r^2$