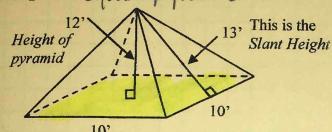
VOLUME AND TOTAL SURFACE AREA OF PRISMS & CYLINDERS				
TSA is the _	Total	Surface	Area	of a three dimensiona
object and is	s found by the _	SUM of all of the	he faces	_, or sides, of the figur
	 Picture Eq Formulas Simplify Answer (e 	xact and approximate)	This will help communicate	to justify your work and your strategy clearly.
For any figu	ure that has two	congruent	, parallel	bases (that is, the
figure could be formed by stacking many thin "slices" of the exact same shape all the way				
through):	v=	(Area of base) · height <	Inis is the between Lorstance bases!
NOTE: The base is NOT always located on the "bottom" of prisms!!!				
In figures that can be dissected this way, the two bases are connected by				
rectani	gles	, parallelogram	s, or Mom	ibuses or squares
Example Triangu 10 c	lar might	10 cm	Example 2: Alinder 10 m	•4
6	8 cm	15 cm	1	
V =	0 15		V = 4 . 10	
= (1)	6.8) . 15		$= (T4^{2}) \cdot 10$ $= 16T \cdot 10 = 1$	607 m ³
= 36	O cm ³	-3 dimensions	≈ 502.65 r	27.4
TSA = 0	4(6) + 2(0))+8[5]	TSA = 2(1) +	
		0.15) + (8.15)	$=2\left(\pi/4^{2}\right)$	
= 4	48 +300 +1	20	A STATE OF THE PARTY OF THE PAR	$30\pi = 112\pi m^2$
=	468 cm ²	€_2 fimen	≈ 351.86	om

VOLUME AND TOTAL SURFACE AREA OF PYRAMIDS & CONES

A pyramid has a single <u>base</u>, and three or more <u>triangular</u> faces that meet at a single point called the apex. A cone, has a <u>Circular</u> base, and can be thought of to have an <u>infinite</u> number of triangular faces meeting at the apex. $V = \frac{1}{3} \text{ Base Avea} \circ \text{ height} \text{ between the second of the sec$

Example 3: Square pyramid



$$V = \frac{1}{3} \left(\frac{10}{10} \right) \cdot 12$$

$$= \frac{1}{3} \left(\frac{10 \cdot 10}{10} \right) \cdot 12$$

$$= \frac{1}{3} \left(\frac{1200}{10} \right) \cdot 12$$

$$= \frac{1}{3} \left(\frac{1200}{10} \right) \cdot 12$$

Example 4:

Cone 5"

$$v = \frac{1}{3}(3^{2}\pi) \cdot 4$$

$$= \frac{1}{3}(3^{2}\pi) \cdot 4$$

**We are not going to worry about the TSA of cones at this point!!!