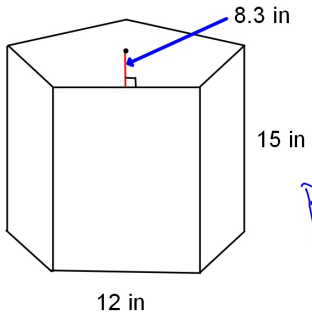
Bellwork Friday, May 30, 2014

Find the Surface Area and Volume of each. Round to the nearest tenth unless noted otherwise.

1. Pentagonal Prism.



SA = $2(249) + 60(15)$

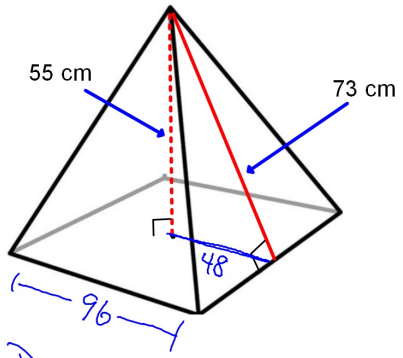
$1398\ in^2$

Vol =

$(249)(15) = 3735\ in^3$

$B = \frac{1}{2}ap = \frac{1}{2}(8.3)(60) = 249$

2. Square Pyramid.



SA = $9216 + \frac{1}{2}(384)(73)$

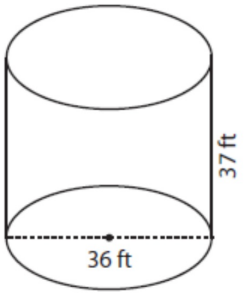
$= 23,232\ cm^2$

Vol = $\frac{1}{3}(9216)(55)$

$168,960\ cm^3$

$B = 96^2 = 9216$

3. Cylinder. Give answer in terms of π



SA = $2(324\pi) + 2\pi(18)(37)$

$1980\pi\ ft^2$

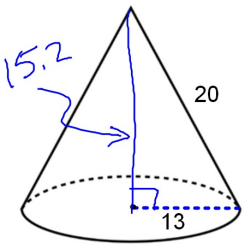
Vol =

$324\pi \cdot 37$

$= 11,988\pi\ ft^3$

$B = \pi r^2 = \pi(18)^2 = 324\pi$

4. Cone. Give answer to the nearest tenth.



SA = $169\pi + \pi(13)(20)$

1347.7

Vol = $\frac{1}{3}(169\pi)(15.2)$

2690.0

$B = \pi r^2 = \pi(13)^2 = 169\pi$