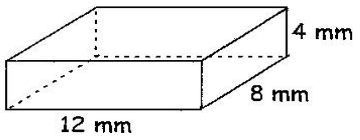
Math 8
SESM

Name_____
Block_____

Measurement Review: Part Two
Surface Area and Volume

Find the surface area of each of the following figures.

1.



$SA = A_{F+B} + A_{L+R} + A_{T+B}$

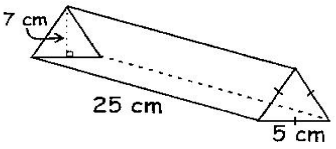
$= 2(lw) + 2(lw) + 2(lw)$

$= 2(12)(4) + 2(8)(4) + 2(12)(8)$

$= 96 + 64 + 192$

$SA = 352\ mm^2$

2.



$SA = A_{2\,ENDS} + A_{L+R+B}$

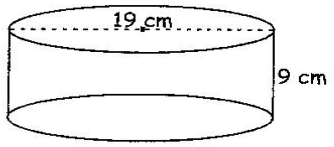
$= 2\left(\frac{bh}{2}\right) + 3(lw)$

$= (5)(7) + 3(25)(5)$

$= 35 + 375$

$SA = 410\ cm^2$

3.

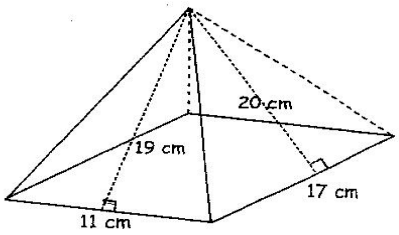


$SA = 2\pi rh + 2\pi r^2$

$= 2\pi(9.5)(9) + 2\pi(9.5)^2$

$SA = 1104.3\ cm^2$

4.



$SA = A_{BASE} + A_{F+B} + A_{L+R}$

$= (lw) + 2\left(\frac{bh}{2}\right) + 2\left(\frac{bh}{2}\right)$

$= (11)(17) + (11)(19) + (17)(20)$

$= 187 + 209 + 340$

$SA = 736\ cm^2$