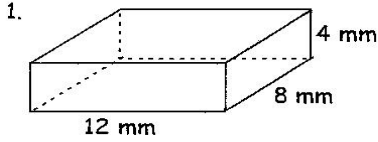


Measurement Review: Part Two  
Surface Area and Volume

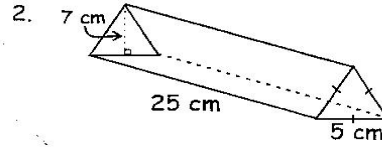
Name \_\_\_\_\_  
Block \_\_\_\_\_

Find the surface area of each of the following figures.



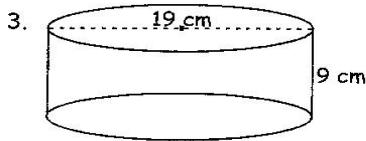
$$\begin{aligned} SA &= A_{F+B} + A_{L+R} + A_{T+B} \\ &= 2(lw) + 2(lh) + 2(wh) \\ &= 2(12)(4) + 2(8)(4) + 2(12)(8) \\ &= 96 + 64 + 192 \end{aligned}$$

$$SA = 352 \text{ mm}^2$$



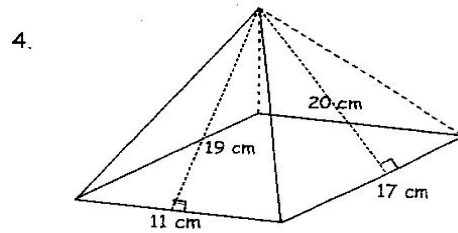
$$\begin{aligned} SA &= A_{2\text{ENDS}} + A_{L+R+B} \\ &= 2\left(\frac{bh}{2}\right) + 3(lw) \\ &= (5)(7) + 3(25)(5) \\ &= 35 + 375 \end{aligned}$$

$$SA = 410 \text{ cm}^2$$



$$\begin{aligned} SA &= 2\pi r h + 2\pi r^2 \\ &= 2\pi(9.5)(9) + 2\pi(9.5)^2 \end{aligned}$$

$$SA = 1104.3 \text{ cm}^2$$



$$\begin{aligned} SA &= A_{\text{BASE}} + A_{F+B} + A_{L+R} \\ &= (lw) + 2\left(\frac{bh}{2}\right) + 2\left(\frac{bh}{2}\right) \\ &= (17)(17) + (17)(19) + (17)(20) \\ &= 187 + 209 + 340 \end{aligned}$$

$$SA = 736 \text{ cm}^2$$