

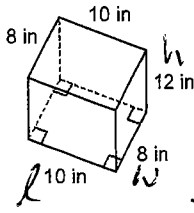
Surface Area Notes

Name _____

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Find the surface area of each figure. Round your answers to the nearest hundredth, if necessary.

1)



$$SA = 2lw + 2wh + 2lh$$

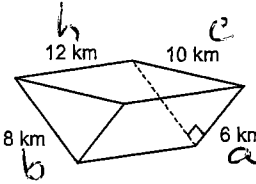
$$SA = 2(10 \times 8) + 2(8 \times 12) + 2(10 \times 12)$$

$$SA = 2(80) + 2(96) + 2(120)$$

$$SA = 160 + 192 + 240$$

$$SA = 592 \text{ in}^2$$

2)



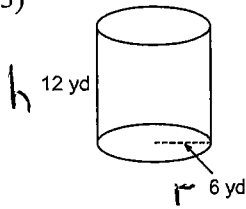
$$SA = ah + bh + ch + ab$$

$$SA = (6 \times 12) + (8 \times 12) + (10 \times 12) + (6 \times 8)$$

$$SA = 72 + 96 + 120 + 48$$

$$SA = 336 \text{ km}^2$$

3)



"r" first!

$$SA = \text{O} + \text{O} + \text{rectangle}$$

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

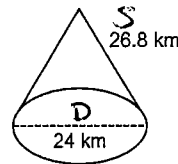
$$SA = 2\pi(6)^2 + 2\pi(6 \times 12)$$

$$SA = 2\pi(36) + 2\pi(72)$$

$$SA = 226.19 + 452.39$$

$$SA = 678.58 \text{ yd}^2$$

4)



$$r = \frac{D}{2}$$

$$SA = \text{O} + \text{sector}$$

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

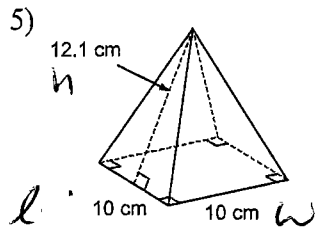
$$SA = \pi \left(\frac{24}{2}\right)^2 + \pi \left(\frac{24}{2}\right)(26.8)$$

$$SA = \pi(12)^2 + \pi(12)(26.8)$$

$$SA = \pi(144) + \pi(321.6)$$

$$SA = 452.39 + 1010.34$$

$$SA = 1462.73$$



$$SA = \square + 4\Delta$$

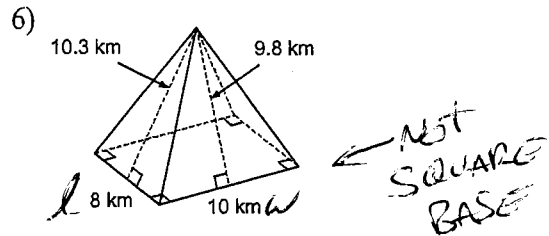
$$SA = lw + 4 \frac{lh}{2}$$

$$SA = (10 \times 10) + 4 \left(\frac{10 \times 12.1}{2} \right)$$

$$SA = 100 + 4(60.5)$$

$$SA = 100 + 242$$

$$SA = 342 \text{ cm}^2$$



$$SA = \square + 2\Delta + 2\Delta$$

$$SA = lw + 2 \frac{lh}{2} + 2 \frac{wh}{2}$$

$$SA = (8 \times 10) + 2 \left(\frac{8 \times 10.3}{2} \right) + 2 \left(\frac{10 \times 10.3}{2} \right)$$

$$SA = 80 + 82.4 + 98$$

$$SA = 260.4 \text{ km}^2$$