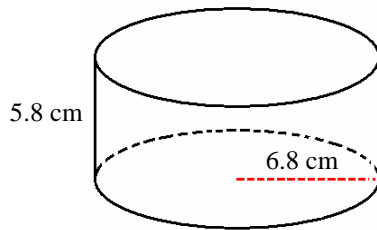


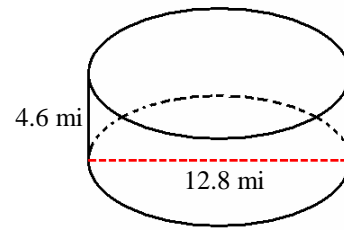
Volume and Surface Area of Cylinders (A)

Instructions: Find the volume and surface area for each cylinder.

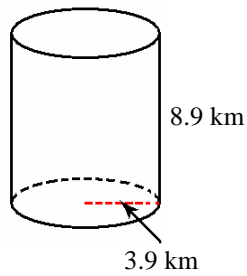
1)



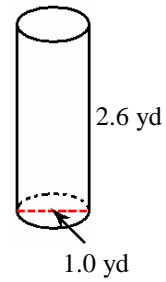
2)



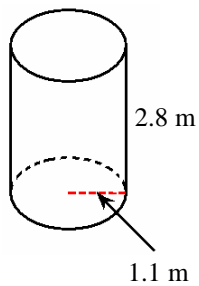
3)



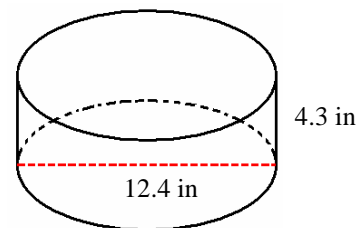
4)



5)



6)

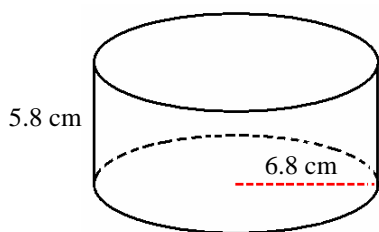


Volume and Surface Area of Cylinders Answer (A)

Instructions: Find the volume and surface area for each cylinder.

Formula: Volume (V) = $\pi r^2 h$, Surface Area (A) = $2\pi r(r+h)$, $\pi = 3.14$

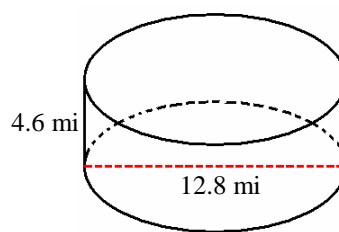
1)



$$V = 3.14 \times 6.8 \times 6.8 \times 5.8 = 842.1 \text{ cm}^3$$

$$A = (2 \times 3.14 \times 6.8) \times (6.8 + 5.8) = 538.1 \text{ cm}^2$$

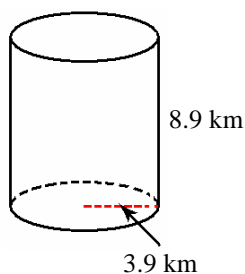
2)



$$V = 3.14 \times 12.8 \times 12.8 \times 4.6 = 591.6 \text{ mi}^3$$

$$A = (2 \times 3.14 \times 12.8) \times (12.8 + 4.6) = 442.1 \text{ mi}^2$$

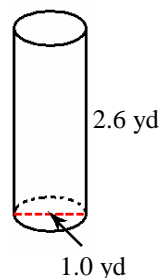
3)



$$V = 3.14 \times 3.9 \times 3.9 \times 8.9 = 425.1 \text{ km}^3$$

$$A = (2 \times 3.14 \times 3.9) \times (3.9 + 8.9) = 313.5 \text{ km}^2$$

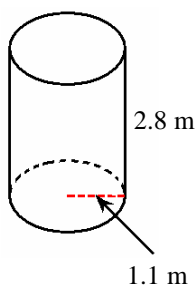
4)



$$V = 3.14 \times 1.0 \times 1.0 \times 2.6 = 2.0 \text{ yd}^3$$

$$A = (2 \times 3.14 \times 1.0) \times (1.0 + 2.6) = 9.7 \text{ yd}^2$$

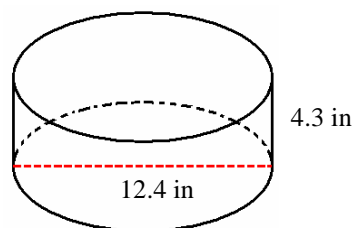
5)



$$V = 3.14 \times 1.1 \times 1.1 \times 2.8 = 10.6 \text{ m}^3$$

$$A = (2 \times 3.14 \times 1.1) \times (1.1 + 2.8) = 26.9 \text{ m}^2$$

6)



$$V = 3.14 \times 12.4 \times 12.4 \times 4.3 = 519.0 \text{ in}^3$$

$$A = (2 \times 3.14 \times 12.4) \times (12.4 + 4.3) = 408.8 \text{ in}^2$$