



MAth on the Fly!

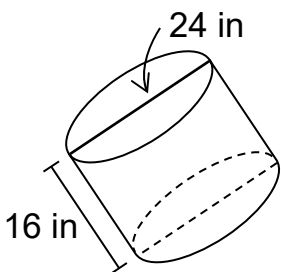


NAME: _____ DATE: _____

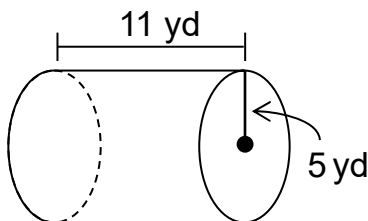
Volume of Cylinders

Find the volume of each figure.

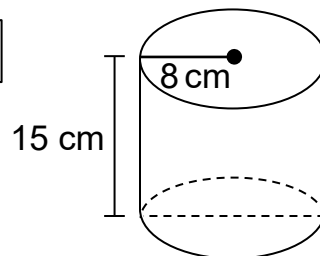
1.



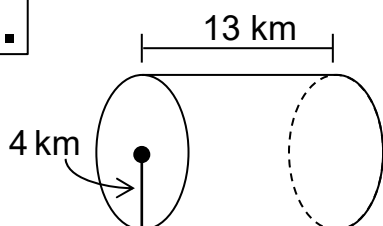
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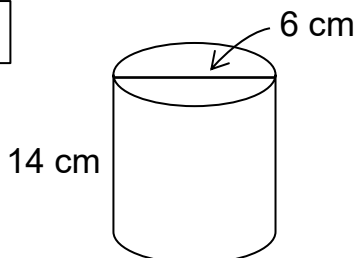
3.



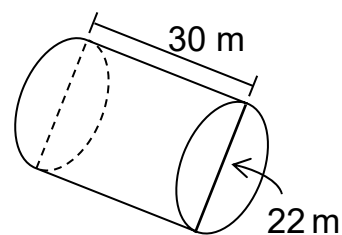
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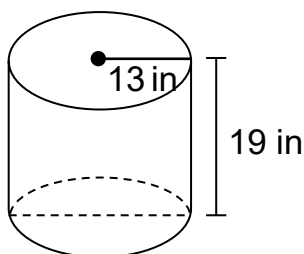
5.



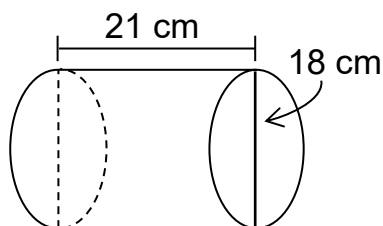
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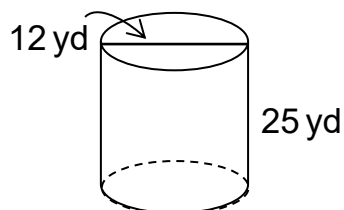
7.



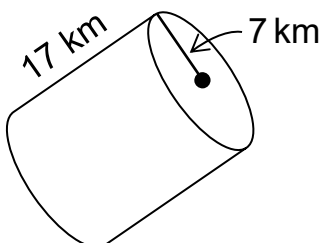
8.



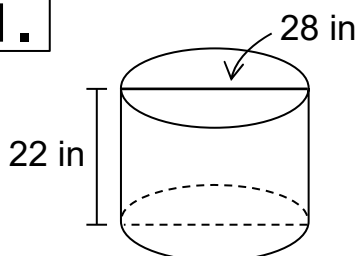
9.



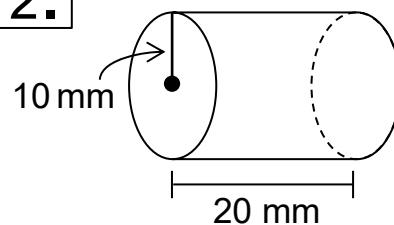
10.



11.



12.



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SOLUTIONS

$$\begin{aligned} 1. \quad V &= \pi(12)^2(16) \\ &= 2304\pi \text{ in}^3 \\ &\approx 7234.56 \text{ in}^3 \end{aligned}$$

$$\begin{aligned} 2. \quad V &= \pi(5)^2(11) \\ &= 275\pi \text{ yd}^3 \\ &\approx 863.5 \text{ yd}^3 \end{aligned}$$

$$\begin{aligned} 3. \quad V &= \pi(8)^2(15) \\ &= 960\pi \text{ cm}^3 \\ &\approx 3014.4 \text{ cm}^3 \end{aligned}$$

$$\begin{aligned} 4. \quad V &= \pi(4)^2(13) \\ &= 208\pi \text{ km}^3 \\ &\approx 653.12 \text{ km}^3 \end{aligned}$$

$$\begin{aligned} 5. \quad V &= \pi(3)^2(14) \\ &= 126\pi \text{ cm}^3 \\ &\approx 395.64 \text{ cm}^3 \end{aligned}$$

$$\begin{aligned} 6. \quad V &= \pi(11)^2(30) \\ &= 3630\pi \text{ m}^3 \\ &\approx 11398.2 \text{ m}^3 \end{aligned}$$

$$\begin{aligned} 7. \quad V &= \pi(13)^2(19) \\ &= 3211\pi \text{ in}^3 \\ &\approx 10082.54 \text{ in}^3 \end{aligned}$$

$$\begin{aligned} 8. \quad V &= \pi(9)^2(21) \\ &= 1701\pi \text{ cm}^3 \\ &\approx 5341.14 \text{ cm}^3 \end{aligned}$$

SOLUTIONS

$$\begin{aligned} 9. \quad V &= \pi(6)^2(25) \\ &= 900\pi \text{ yd}^3 \\ &\approx 2826 \text{ yd}^3 \end{aligned}$$

$$\begin{aligned} 10. \quad V &= \pi(7)^2(17) \\ &= 833\pi \text{ km}^3 \\ &\approx 2615.62 \text{ km}^3 \end{aligned}$$

$$\begin{aligned} 11. \quad V &= \pi(14)^2(22) \\ &= 4312\pi \text{ in}^3 \\ &\approx 13539.68 \text{ in}^3 \end{aligned}$$

$$\begin{aligned} 12. \quad V &= \pi(10)^2(20) \\ &= 2000\pi \text{ mm}^3 \\ &\approx 6280 \text{ mm}^3 \end{aligned}$$