1. A cylinder is 12 cm tall and has a diameter of 3 cm. What is its surface area?

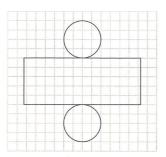
## At-Home Help

For a cylinder,

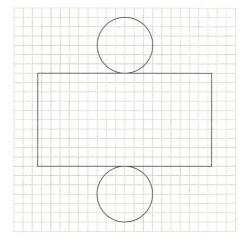
Total surface area = area of top and base + area of curved surface = (2  $\times$  area of the circle) + (circumference of base × height) =  $(2 \times \pi r^2) + (\pi d \times \text{height})$ 

2. Use each net to estimate the surface area of the cylinder.

a)

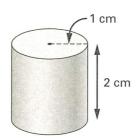


b)

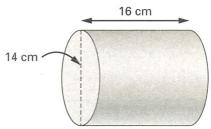


3. Calculate the surface area of each cylinder.

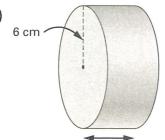
a)



c)

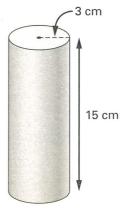


b)



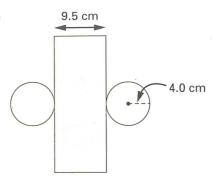
5 cm

d)

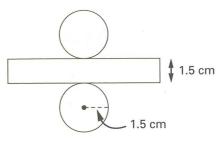


4. Use each net to determine the surface area of the cylinder.

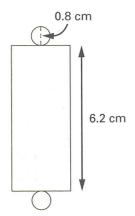
a)



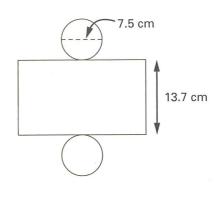
c)



b)

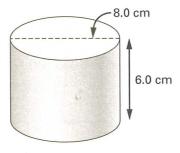


d)



5. Calculate the surface area of each cylinder.

a)



c)

