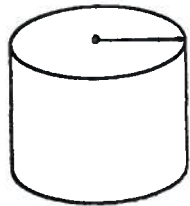


## Surface Area of a Cylinder

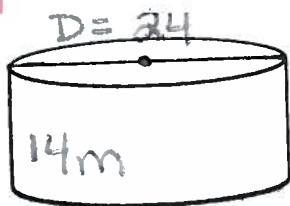


$$SA = 2\pi r^2 + 2\pi rh$$

area of top + bottom      area of the rectangle

units squared

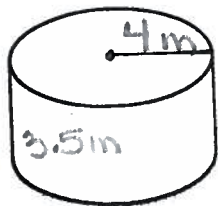
\* plastic to cover a rolled up rug  
+ umbrella sleeve



$$SA = 2\pi r^2 + 2\pi rh$$
$$2(3.14)(12)(12) + 2(3.14)(12)(14)$$
$$904.32 + 1055.04$$
$$SA = 1959.38 \text{ m}^2$$



$$SA = 2\pi r^2 + 2\pi rh$$
$$2(3.14)(4)(4) + 2(3.14)(4)(16)$$
$$100.48 + 401.92$$
$$SA = 502.4 \text{ m}^2$$



$$SA = 2\pi r^2 + 2\pi rh$$
$$2(3.14)(4)(4) + 2(3.14)(4)(3.5)$$
$$100.48 + 87.92$$
$$SA = 188.4 \text{ m}^2$$