

use formula: $S = 2\pi rh + 2\pi r^2$

- 26 A can in the shape of a cylinder has a diameter of 6 centimeters and a height of 10 centimeters. Which measurement is closest to the total surface area of the can in square centimeters?

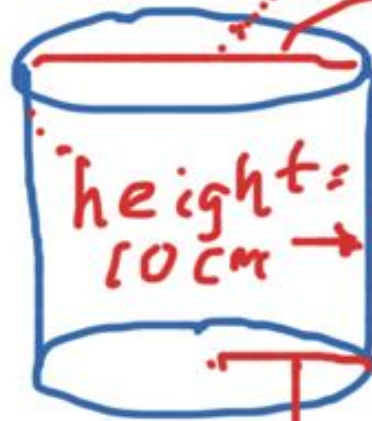
strategy: Draw a picture

F 603.19 cm^2

G 245.04 cm^2

H 376.99 cm^2

J 188.50 cm^2



Diameter = 6 cm

$$S = 2 \cdot 3.14 \cdot 3 \cdot 10 + 2 \cdot 3.14 \cdot (3)^2$$

radius = 3 cm

$$S = 188.4 + 56.52$$

$$S = 244.92 \approx 245$$