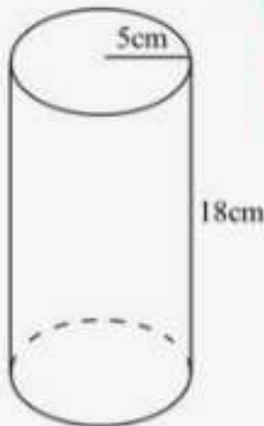


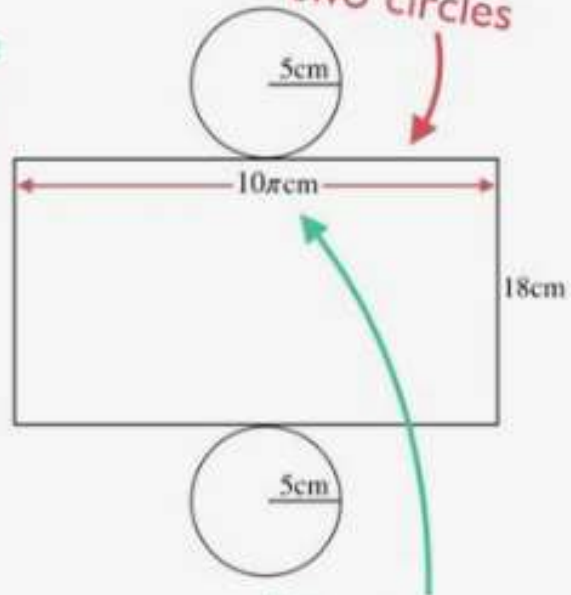
Surface area of a cylinder

The total area of the outside faces

Net is a rectangle and two circles



Unwrap the cylinder to find its net



Answer

Width is the circumference of the circles

Circles
Use πr^2 to find the area of the circles $\pi \times 5^2 = 25\pi$

Rectangle

$$10\pi \times 18 = 180\pi$$



$$\text{Surface area} = 25\pi + 25\pi + 180\pi$$

Add the area of the rectangle to the two circles to find the total surface area

$$= 230\pi \text{ cm}^2 \checkmark$$