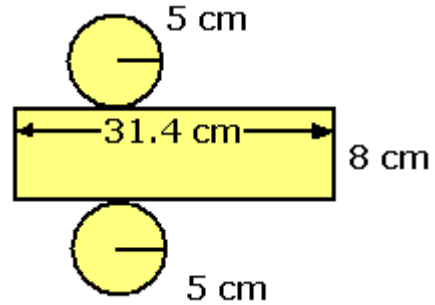


MATC9 Ch03.4 Key Concepts 1 Net for a Cylinder Worked Example

Example: Sketch a net for a cylinder with a radius of 5 cm and a height of 8 cm.

Solution: You need two circles with a radius of 5 cm for the top and bottom. The width of the rectangle will be the height of the cylinder, or 8 cm. The length of the rectangle will be the circumference of the cylinder.



$$\begin{aligned} C &= 2\pi r \\ &= 2 \times \pi \times 5 \\ &= 31.4 \text{ cm} \end{aligned}$$

Practice:

1. Sketch a net for a cylinder with a radius of 12 cm and a height of 12 cm.

2. Sketch a net for a cylinder with a radius of 4 m and a height of 5 m.