

Cylinder net - answers

Worked answers / Keep separate from the student sheet.

1. A cylinder has radius 6 mm and height 18 mm. Find the side rectangle's dimensions and total surface area.

Rectangle = 37.69911 x 18 mm. Total area = $2\pi r(h+r) = 904.77868 \text{ mm}^2$.

2. A cylinder has radius 7 mm and height 21 mm. Find the side rectangle's dimensions and total surface area.

Rectangle = 43.9823 x 21 mm. Total area = $2\pi r(h+r) = 1231.50432 \text{ mm}^2$.

3. A cylinder has radius 8 mm and height 24 mm. Find the side rectangle's dimensions and total surface area.

Rectangle = 50.26548 x 24 mm. Total area = $2\pi r(h+r) = 1608.49544 \text{ mm}^2$.

4. A cylinder has radius 9 mm and height 27 mm. Find the side rectangle's dimensions and total surface area.

Rectangle = 56.54867 x 27 mm. Total area = $2\pi r(h+r) = 2035.75204 \text{ mm}^2$.

5. A cylinder has radius 10 mm and height 30 mm. Find the side rectangle's dimensions and total surface area.

Rectangle = 62.83185 x 30 mm. Total area = $2\pi r(h+r) = 2513.27412 \text{ mm}^2$.

6. A cylinder has radius 11 mm and height 33 mm. Find the side rectangle's dimensions and total surface area.

Rectangle = 69.11504 x 33 mm. Total area = $2\pi r(h+r) = 3041.06169 \text{ mm}^2$.