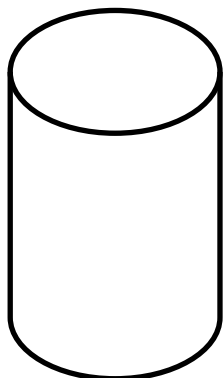


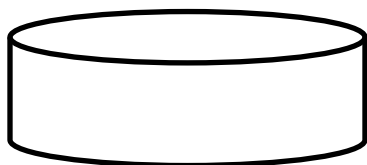
L 10 : Meting (Verander die onderwerp van die formule)

- 1 'n Glas water is in die vorm van 'n silinder en hou 200ml vloeistof as hy vol is. Bereken die radius van die glas as hy 10 cm hoog is.
Volume = $\pi r^2 h$. Rond jou antwoord af tot 2 desimale syfers.



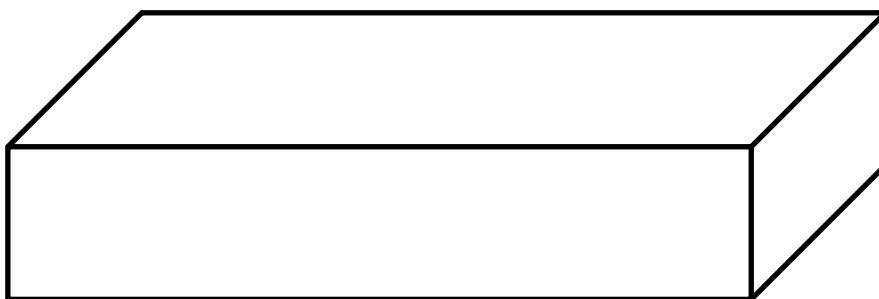
$$\begin{aligned} \text{Volume} &= \pi r^2 h. \\ \text{Volume} &= 200 \text{ ml} \\ \pi r^2 h &= 200 \text{ ml} \\ 3,142 \times r^2 \times 10 &= 200 \text{ cm}^3 \\ 31,42 \times r^2 &= 200 \\ r^2 &= \frac{200}{31,42} \\ r^2 &= 6,3653723 \\ r^2 &= \sqrt{6,3653723} \\ r &\approx 2,5 \text{ cm} \end{aligned}$$

- 2 Die omtrek van 'n dam is 21m. Wat is die deursnee van die dam?
Omtrek = $2\pi r$



$$\begin{aligned} 2\pi r &= 21 \\ 2 \times 3,142 \times r &= 21 \\ r &= \frac{21}{6,284} \\ r &\approx 3,342 \text{ m Deursnee} = 6,684 \text{ m} \end{aligned}$$

Die omtrek van 'n reghoekige swembad is 34m. Die lengte van die swembad is 10m, wat is die breedte?



$$\begin{aligned} \text{Omtrek van 'n reghoek} &= 2l + 2b \\ 2 \times l + 2 \times b &= 34 \\ 2 \times 10 + 2 \times b &= 34 \\ 20 + 2 \times b &= 34 \\ 2 \times b &= 14 \text{ dus } b = 7 \text{ m} \end{aligned}$$