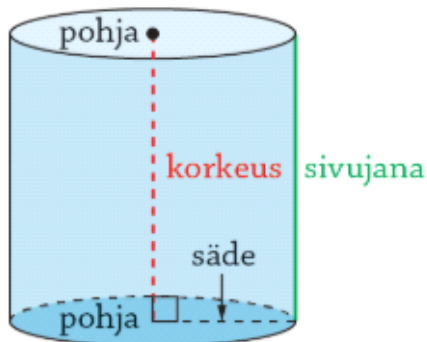


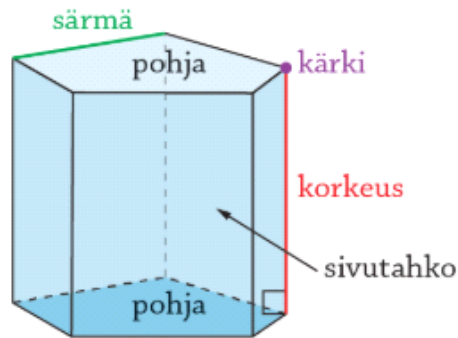
2 pohjaa + vaippa

tilavuus

$$V = A_{\text{pohja}} \cdot h$$



suora ympyrälieriö

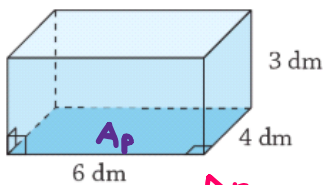


särmä

Laske lieriön tilavuus. Anna vastaus litroina kahden merkitsevän numeron tarkkuudella.

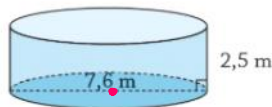
$$1 \text{ dm}^3 = 1 \text{ litra}$$

a)



$$\begin{aligned} V &= \overbrace{6 \text{ dm} \cdot 4 \text{ dm}}^{A_p} \cdot \overbrace{3 \text{ dm}}^h \\ &= 24 \text{ dm}^2 \cdot 3 \text{ dm} \\ &= 72 \text{ dm}^3 \\ &= 72 \text{ l} \end{aligned}$$

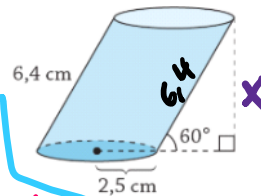
b)



$$r = \frac{7,6 \text{ m}}{2} = 3,8 \text{ m}$$

$$\begin{aligned} V &= \pi \cdot \overbrace{3,8^2}^{A_p} \cdot \overbrace{2,5}^h \\ &= \pi \times 3,8^2 \times 2,5 \\ &= 113,411494794591535909 \\ &\approx 113 \text{ m}^3 (\cdot 1000) \\ &= 113\,000 \text{ dm}^3 \\ &= 113\,000 \text{ l} \end{aligned}$$

c)



$$\sin 60^\circ = \frac{x}{6,4} \quad || \cdot 6,4$$

$$x = \sin 60^\circ \cdot 6,4$$

$$\sin(60) \times 6,4$$

$$x = 5,54256258422040733929$$

$$V = \pi \times 2,5^2 \times \text{ANS}$$

$$108,827961854053071036$$

$$\begin{aligned} &\approx 109 \text{ cm}^3 (\cdot 1000) \\ &= 0,109 \text{ dm}^3 = 0,109 \text{ l} \end{aligned}$$

402	403	405	406	410
	407		414	
	408		416	



$$V = x \cdot x \cdot x = x^3$$

$$x^3 = 61$$

$$x = \sqrt[3]{61}$$