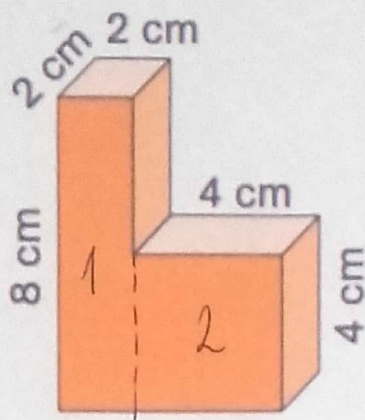


1. Izračunaj prostornino sestavljenega telesa.



① KVADER

$$V_1 = a \cdot b \cdot c$$

$$a = 2 \text{ cm}$$

$$b = 2 \text{ cm}$$

$$c = 8 \text{ cm}$$

$$V_1 =$$

$$V_1 = 2 \cdot 2 \cdot 8$$

$$V_1 = 32 \text{ cm}^3$$

② KVADER

$$a = 2 \text{ cm}$$

$$b = 4 \text{ cm}$$

$$c = 4 \text{ cm}$$

$$V_2 = a \cdot b \cdot c$$

$$V_2 = 2 \cdot 4 \cdot 4$$

$$V_2 = 32 \text{ cm}^3$$

$$V_2 =$$

$$V = V_1 + V_2 = 32 + 32 = 64 \text{ cm}^3$$

Volumen je 64 cm^3 .

2. Skupna dolžina robov kocke meri 24 cm. Kolikšna je prostornina te kocke? Izrazi jo v kubičnih metrih.

$$l = 24 \text{ cm}$$

$$V =$$

KOCKA IMA 12 robov.

$$a = 24 : 12 = 2 \text{ cm}$$

$$V = a \cdot a \cdot a$$

$$V = 2 \cdot 2 \cdot 2$$

$$V = 8 \text{ cm}^3 = 0,008 \text{ dm}^3$$

$$= 0,000008 \text{ m}^3$$

Prostornina kocke je $0,000008 \text{ m}^3$

3. Koliko meri rob in koliko prostornina kocke, katere površina meri 6 cm^2 ?

$$P = 6 \text{ cm}^2$$

$$a =$$

$$V =$$

$$P = 6 \cdot a \cdot a$$

$$6 = 6 \cdot a \cdot a$$

$$1 = a \cdot a$$

$$1 = 1 \cdot 1$$

$$a = 1 \text{ cm}$$

$$V = a \cdot a \cdot a$$

$$V = 1 \cdot 1 \cdot 1$$

$$V = 1 \text{ cm}^3$$

4. 7,5 m široko cestišče betonirajo z 20 cm debelim slojem betona. Koliko bo stalo betoniranje 1 km ceste, če 1 m^3 betona stane 30 €?

$$a = 1 \text{ km} = 1000 \text{ m}$$

$$b = 7,5 \text{ m}$$

$$c = 20 \text{ cm} = 0,2 \text{ m}$$

$$V =$$

$$V = a \cdot b \cdot c$$

$$V = 1000 \cdot 7,5 \cdot 0,2$$

$$V = 1500 \text{ m}^3$$

$$1500 \cdot 30 \text{ €} = 45000 \text{ €}$$

Stalo bo 45000 €

5. V merilno posodo, v kateri je 250 ml vode, potopimo šest enako velikih kroglic.

Kolikšna je prostornina ene kroglice, če se nivo vode dvigne do oznake 550 ml?

$$V_1 = 250 \text{ ml}$$

$$V_2 = 550 \text{ ml}$$

$$V_k = ?$$

$$V = V_2 - V_1 = 550 - 250 = 300 \text{ ml}$$

$$V_k = 300 : 6 = 50 \text{ ml}$$

Volumen 1 kroglice je 50 ml.

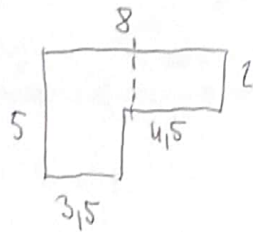
$$15a) \begin{aligned} a &= 3,2\text{m} = 32\text{dm} \\ b &= 36\text{cm} = 3,6\text{dm} \\ c &= 1,2\text{dm} = 12\text{dm} \\ \hline V &= \end{aligned}$$

$$\begin{aligned} V &= a \cdot b \cdot c \\ V &= 32 \cdot 3,6 \cdot 12 \\ V &= 1382,4\text{dm}^3 \end{aligned}$$

$$b) \begin{aligned} a &= 2,4\text{dm} \\ \hline V &= \end{aligned}$$

$$\begin{aligned} V &= a \cdot a \cdot a \\ V &= 2,4 \cdot 2,4 \cdot 2,4 \\ V &= 13,824\text{dm}^3 \end{aligned}$$

$$17. \begin{aligned} c &= 3,2\text{m} \\ \hline V &= \end{aligned}$$



$$V = a \cdot b \cdot c$$

$$V_1 = 5 \cdot 3,5 \cdot 3,2$$

$$V_2 = 4,5 \cdot 2 \cdot 3,2$$

$$V_1 = 56\text{m}^3$$

$$V_2 = 28,8\text{m}^3$$

$$V = V_1 + V_2 = 56 + 28,8 = \underline{\underline{84,8\text{m}^3}}$$