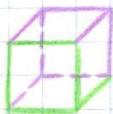


# PROSTORNINA KVADRA IN KOCKE

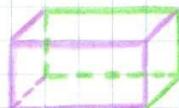
6. razred

10. teden, 4. ura

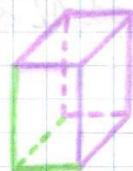
163/2.a)



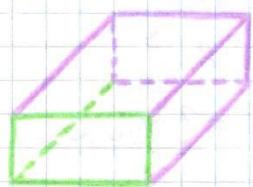
b)



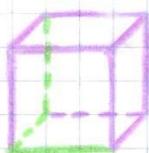
c)



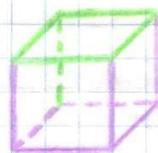
c)



d)



e)



5.) Pri tej nalogi je več možnih poti reševanja!

$$\begin{aligned} a) & 2 \cdot 3 + 3 \cdot 5 + 4 \cdot 5 \cdot 3 = \\ & = 6 + 15 + 60 = \\ & = \underline{\underline{81 \text{ kock}}} \end{aligned}$$

$$\begin{aligned} b) & 3+4+2 \cdot 4+2 \cdot 2 = \\ & = 3+4+8+4 = \\ & = \underline{\underline{19 \text{ kock}}} \end{aligned}$$

7.) a)  $a = 1,8 \text{ m} = 18 \text{ dm}$

$$b = 6 \text{ dm}$$

$$c = 45 \text{ cm} = 4,5 \text{ dm}$$

$$V = ?$$

$$\begin{array}{r} 4,5 \cdot 6 \\ \hline 27,0 \end{array} \quad \begin{array}{r} 27 \cdot 18 \\ \hline 27 \\ + 216 \\ \hline 486 \end{array}$$

Enote pretvorimo v  
dm, ker je  $1 \text{ l} = 1 \text{ dm}^3$ .

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

$$V = 18 \cdot 6 \cdot 4,5$$

$$V = 486 \text{ dm}^3 = \underline{\underline{486 \text{ l}}}$$

Odg.: Nalijem lahko 486 l vode.

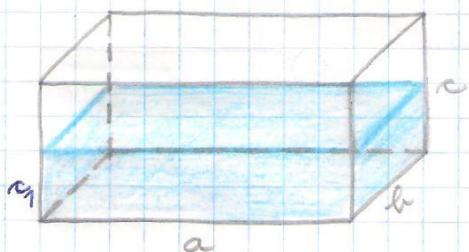
b)  $a = 0,4 \text{ m} = 4 \text{ dm}$   
 $V = ?$

$$\begin{aligned} V &= a^3 \\ V &= 4^3 = 4 \cdot 4 \cdot 4 \\ V &= 64 \text{ dm}^3 = \underline{\underline{64 \text{ l}}} \end{aligned}$$

Odg.: Nalijem lahko 64 l vode.

$$\begin{aligned} g.) \quad a &= 8 \text{ m} = 80 \text{ dm} \\ b &= 0,7 \text{ m} = 7 \text{ dm} \\ c &= 1,2 \text{ m} = 12 \text{ dm} \\ c_1 &= \frac{1}{2} \text{ od } 12 \text{ dm} = 6 \text{ dm} \\ V &=? \end{aligned}$$

SKICA:



Dve možnosti za reševanje:

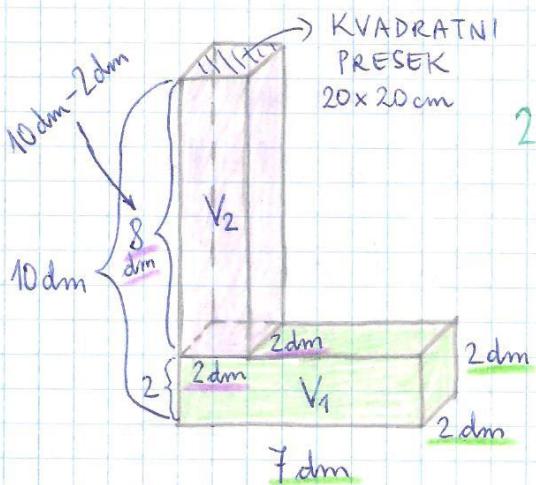
$$\begin{aligned} 1.) \quad V &= a \cdot b \cdot c_1 & \frac{42 \cdot 80}{3360} \\ V &= 80 \cdot 7 \cdot 6 \\ V &= 3360 \text{ dm}^3 = 3360 \text{ l} \end{aligned}$$

ali

$$\begin{aligned} 2.) \quad V &= a \cdot b \cdot c & \frac{84 \cdot 80}{2720} \\ V &= 80 \cdot 7 \cdot 12 \\ V &= 6720 \text{ dm}^3 \\ 6720 : 2 &= 3360 \text{ l} \end{aligned}$$

Odg.: V jarku je 3360 l vode.

164/10.a) Enote spremenimo v dm, da potem računamo z manjšimi števili.



Črke si razdelimo na 2 dela, 2 kvadra (imamo 2 možnosti).

1. KVADER

$$\begin{aligned} a_1 &= 7 \text{ dm} \\ b_1 &= 2 \text{ dm} \\ c_1 &= 2 \text{ dm} \end{aligned}$$

2. KVADER

$$\begin{aligned} a_2 &= 2 \text{ dm} \\ b_2 &= 2 \text{ dm} \\ c_2 &= 8 \text{ dm} \end{aligned}$$

$$V_1 = a_1 \cdot b_1 \cdot c_1$$

$$V_2 = a_2 \cdot b_2 \cdot c_2$$

$$V = V_1 + V_2$$

$$V_1 = 7 \cdot 2 \cdot 2$$

$$V_2 = 2 \cdot 2 \cdot 8$$

$$V = 28 + 32$$

$$V_1 = 28 \text{ dm}^3$$

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

$$V = 60 \text{ dm}^3$$

Odg.: Prostornina črke L meri  $60 \text{ dm}^3 (60000 \text{ cm}^3)$ .