

grupa A, B

1. (a) $56 \text{ dag} = 0,56 \text{ kg}$

(b) $83 \text{ ml} = 83 \text{ cm}^3$

(c) $2 \frac{\text{g}}{\text{cm}^3} = 2000 \frac{\text{kg}}{\text{m}^3}$

(d) $17,5 \text{ dm}^2 = 175000 \text{ m}^2$

(e) $305,2 \text{ cm} = 3,052 \text{ m}$

(f) $1,29 \frac{\text{kg}}{\text{m}^3} = 0,00129 \frac{\text{g}}{\text{cm}^3}$

(g) $4 \text{ mm} = 0,04 \text{ dm}$

(h) $25 \text{ mm}^2 = 0,00025 \text{ m}^2$

(i) $324 \text{ mm}^3 = 0,00000324 \text{ m}^3$

(j) $37 \text{ g} = 0,037 \text{ kg}$

(k) $2,5 \text{ l} = 2,5 \text{ dm}^3 = 2500 \text{ cm}^3$

(l) $4500 \text{ mm}^3 = 4,5 \text{ cm}^3 = 4,5 \text{ ml} = 0,045 \text{ dl}$

2. $l_1 = 75 \text{ cm} = 0,75 \text{ m}$

$l = 1200 \text{ m}$

$n = ?$

$l = n \cdot l_1 \Rightarrow n = l : l_1$

$n = 1200 \text{ m} : 0,75 \text{ m}$

$n = 1600 \text{ koraka}$

3. $a = 67 \text{ dm} = 6,7 \text{ m}$

$b = 562 \text{ cm} = 5,62 \text{ m}$

$A = ?$

$A = a \cdot b$

$A = 6,7 \text{ m} \cdot 5,62 \text{ m}$

$A = 37,654 \text{ m}^2$

4. $a = 2,3 \text{ dm} = 23 \text{ cm}$

$A = ?$

$A = a \cdot a$

$A = 23 \text{ cm} \cdot 23 \text{ cm}$

$A = 529 \text{ cm}^2$

5. $A_1 = 16 \text{ cm}^2$

$a = 4,8 \text{ m} = 480 \text{ cm}$

$b = 4 \text{ m} = 400 \text{ cm}$

$n = ?$

$A = a \cdot b$

$A = 480 \text{ cm} \cdot 400 \text{ cm}$

$A = 192000 \text{ cm}^2$

$n = A : A_1$

$n = \frac{192000 \text{ cm}^2}{16 \text{ cm}^2}$

$n = 12000$

6. $d = 9 \text{ mm}$

$d_1 = 1,5 \text{ mm}$

$n = ?$

$n = d : d_1$

$n = 9 \text{ mm} : 1,5 \text{ mm}$

$n = 6$

7. $d = 24 \text{ mm}$

$n = 368 \text{ str.} : 2 = 184 \text{ lista}$

$d_1 = ?$

$d = n \cdot d_1 \Rightarrow d_1 = d : n$

$d_1 = 24 \text{ mm} : 184$

$d_1 = 0,13 \text{ mm}$

8. $a = 45 \text{ cm}$
 $b = 340 \text{ mm} = 34 \text{ cm}$
 $c = 1,35 \text{ m} = 135 \text{ cm}$



$$V = ?$$

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

$$V = 45 \text{ cm} \cdot 34 \text{ cm} \cdot 135 \text{ cm}$$

$$V = 206550 \text{ cm}^3$$

9. $a = 35 \text{ cm} = 3,5 \text{ dm}$
 $V = ?$



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

$$V = 3,5 \text{ dm} \cdot 3,5 \text{ dm} \cdot 3,5 \text{ dm}$$

$$V = 42,875 \text{ dm}^3$$

$$V = 42,875 \text{ l}$$

10. $m = 200 \text{ g}$

$$m_B = 25 \text{ dag} = 250 \text{ g}$$

$$m_S = 20 \text{ dag} = 200 \text{ g}$$

$$m_P = 5 \text{ g}$$

$$m_O = 10 \text{ dag} = 100 \text{ g}$$

$$m_{\text{ukupna}} = m + m_B + m_S + m_P + m_O$$

$$m_{\text{ukupna}} = 200 \text{ g} + 250 \text{ g} + 200 \text{ g} + 5 \text{ g} + 100 \text{ g}$$

$$m_{\text{ukupna}} = 755 \text{ g}$$

11. $V = 25 \text{ l} = 25 \text{ dm}^3 = 0,025 \text{ m}^3$

$$m = 20 \text{ kg}$$

$$\rho = \frac{m}{V}$$

$$\rho = \frac{20 \text{ kg}}{0,025 \text{ m}^3}$$

$$\rho = 800 \frac{\text{kg}}{\text{m}^3}$$

12. $m = 1,5 \text{ kg}$
 $\rho = 1,293 \frac{\text{kg}}{\text{m}^3}$

$$V = ?$$

$$V = \frac{m}{\rho}$$

$$V = \frac{1,5 \text{ kg}}{1,293 \frac{\text{kg}}{\text{m}^3}}$$

$$V = 1,16 \text{ m}^3$$

13. $a = 6 \text{ dm} = 0,6 \text{ m}$
 $b = 40 \text{ cm} = 0,4 \text{ m}$
 $c = 0,3 \text{ m}$

$$V = ?$$

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

$$V = 0,6 \text{ m} \cdot 0,4 \text{ m} \cdot 0,3 \text{ m}$$

$$V = 0,072 \text{ m}^3$$

15. $A = 1,2 \text{ dm}^2$

$$V = 0,36 \text{ hl} = 36 \text{ l} = 36 \text{ dm}^3$$

$$h = ?$$

$$V = A \cdot h \Rightarrow h = V : A \text{ ili } h = \frac{V}{A}$$

$$h = \frac{36 \text{ dm}^3}{1,2 \text{ dm}^2}$$

$$h = 30 \text{ dm}$$

14. $A = 7 \text{ cm}^2$

$$h = 12 \text{ cm}$$

$$V = ?$$

$$V = A \cdot h$$

$$V = 7 \text{ cm}^2 \cdot 12 \text{ cm}$$

$$V = 84 \text{ cm}^3$$

$$16. \quad V = 24 \text{ dl} = 2400 \text{ ml} = 2400 \text{ cm}^3$$

$$h = 50 \text{ cm}$$

$$A = ?$$

$$V = A \cdot h \Rightarrow A = V : h$$

$$A = 2400 \text{ cm}^3 : 50 \text{ cm}$$

$$A = 48 \text{ cm}^2$$

$$17. \quad V = 5 \text{ cm}^3$$

$$\rho = 10,5 \frac{\text{g}}{\text{cm}^3}$$

$$m = ?$$

$$m = \rho \cdot V$$

$$m = 10,5 \frac{\text{g}}{\text{cm}^3} \cdot 5 \text{ cm}^3$$

$$m = 52,5 \text{ g}$$

$$18. \quad m = 30 \text{ kg}$$

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

$$b = 5 \text{ dm} = 0,5 \text{ m}$$

$$c = 3 \text{ dm} = 0,3 \text{ m}$$

$$\rho = ?$$

$$V = ?$$

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

$$V = 1 \text{ m} \cdot 0,5 \text{ m} \cdot 0,3 \text{ m} \quad \rho = 200 \frac{\text{kg}}{\text{m}^3}$$

$$V = 0,15 \text{ m}^3$$

$$\rho = \frac{m}{V}$$

$$\rho = \frac{30 \text{ kg}}{0,15 \text{ m}^3}$$

$$19. \quad a = 30 \text{ cm}$$

$$b = 20 \text{ cm}$$

$$c = 25 \text{ cm}$$

$$\rho = 1 \frac{\text{g}}{\text{cm}^3}$$

$$m = ?$$

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

$$V = 30 \text{ cm} \cdot 20 \text{ cm} \cdot 25 \text{ cm}$$

$$V = 15000 \text{ cm}^3$$

$$m = \rho \cdot V$$

$$m = 1 \frac{\text{g}}{\text{cm}^3} \cdot 15000 \text{ cm}^3$$

$$m = 15000 \text{ g} = 15 \text{ kg}$$

$$20. \quad V_1 = 50 \text{ cm}^3$$

$$V_2 = 70 \text{ cm}^3$$

$$V = ?$$

$$V = V_2 - V_1$$

$$V = 70 \text{ cm}^3 - 50 \text{ cm}^3$$

$$V = 20 \text{ cm}^3$$

$$22. \quad m = 1500 \text{ g}$$

$$n = 3$$

$$m_1 = 12,5 \text{ dag} = 125 \text{ g}$$

$$m_2 = ?$$

$$m_2 = m - 3 m_1$$

$$m_2 = 1500 \text{ g} - 3 \cdot 125 \text{ g}$$

$$m_2 = 1500 \text{ g} - 375 \text{ g}$$

$$m_2 = 1125 \text{ g}$$

$$21.$$

$$m = 800 \text{ g} : 5 = 160 \text{ g}$$