

GRUPA A, B - rješenja

1. (a) $0,56 \text{ kg}$ (b) 83 cm^3 (c) $2000 \frac{\text{kg}}{\text{m}^3}$ (d) 175000 mm^2
 (e) $3,052 \text{ m}$ (f) $0,00129 \frac{\text{g}}{\text{cm}^3}$ (g) $0,04 \text{ dm}$ (h) $0,000025 \text{ m}^2$
 (i) $0,000000324 \text{ m}^3$ (j) $0,037 \text{ kg}$ (k) $2,5 \text{ dm}^3 = 2500 \text{ cm}^3$ (l) $4,5 \text{ cm}^3 = 4,5 \text{ mL} = 0,045 \text{ dl}$

2. $l_1 = 75 \text{ cm} = 0,75 \text{ m}$
 $l = 1200 \text{ m}$

$n = ?$
 $n = l : l_1$
 $n = 1200 \text{ m} : 0,75 \text{ m}$
 $n = 1600 \text{ koraka}$

3. $n = 6$
 $d = 9 \text{ mm}$
 $d_1 = ?$

$d_1 = d : n$
 $d_1 = 9 \text{ mm} : 6$
 $d_1 = 1,5 \text{ mm}$

4. $d = 24 \text{ mm}$
 $n = 368 : 2 = 184 \text{ lista}$
 $d_1 = ?$

$d_1 = d : n$
 $d_1 = 24 \text{ mm} : 184$
 $d_1 = 0,13 \text{ mm}$

5. $l_1 = 80 \text{ cm} = 0,8 \text{ m}$
 $n = 256$
 $l = ?$

$l = n \cdot l_1$
 $l = 256 \cdot 0,8$
 $l = 204,8 \text{ m}$

6. $a = 67 \text{ dm} = 6,7 \text{ m}$
 $b = 562 \text{ cm} = 5,62 \text{ m}$
 $A = ?$

$A = a \cdot b$
 $A = 6,7 \text{ m} \cdot 5,62 \text{ m}$
 $A = 37,654 \text{ m}^2$

7. $a = 2,3 \text{ dm} = 23 \text{ cm}$
 $A = ?$

$A = a^2$
 $A = 23^2 \text{ cm}^2$
 $A = 529 \text{ cm}^2$

8. $A_1 = 16 \text{ cm}^2$
 $a = 4,8 \text{ m}$
 $b = 4 \text{ m}$

$n = ?$
 $A = a \cdot b$
 $A = 4,8 \text{ m} \cdot 4 \text{ m}$
 $A = 19,2 \text{ m}^2$
 $A = 192000 \text{ cm}^2$

$n = A : A_1$
 $n = 192000 \text{ cm}^2 : 16 \text{ cm}^2$
 $n = 12000$

9. $a = 45 \text{ cm} = 0,45 \text{ m}$
 $b = 340 \text{ mm} = 0,34 \text{ m}$
 $c = 1,35 \text{ m}$

$V = ?$
 $V = a \cdot b \cdot c$
 $V = 0,45 \text{ m} \cdot 0,34 \text{ m} \cdot 1,35 \text{ m}$
 $V = 0,20655 \text{ m}^3$

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

$V = a^3$
 $V = 3,5 \text{ dm} \cdot 3,5 \text{ dm} \cdot 3,5 \text{ dm}$
 $V = 42,875 \text{ dm}^3$
 $V = 42,875 \text{ l}$

11. $m_1 = 200 \text{ g}$
 $m_2 = 25 \text{ dag} = 250 \text{ g}$
 $m_3 = 20 \text{ dag} = 200 \text{ g}$
 $m_4 = 5 \text{ g}$
 $m_5 = 10 \text{ dag} = 100 \text{ g}$

$m = ?$
 $m = m_1 + m_2 + m_3 + m_4 + m_5$
 $m = 200 \text{ g} + 250 \text{ g} + 200 \text{ g} + 5 \text{ g} + 100 \text{ g}$
 $m = 755 \text{ g}$

12. $m = 156g$
 $V = 0,02 dm^3 = 20 cm^3$
 $\rho = ?$

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

$$\rho = \frac{156g}{20cm^3}$$

$$\rho = 7,8 \frac{g}{cm^3}$$

13. $V = 25l = 25dm^3 = 0,025m^3$
 $m = 20kg$
 $\rho = ?$

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

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

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

14. $m = 1,5kg$
 $\rho = 1,293 \frac{kg}{m^3}$
 $V = ?$

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

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

$$V = 1,16m^3$$

15. $V = 5cm^3$
 $\rho = 10,5 g/cm^3$

$$m = ?$$

$$m = \rho \cdot V$$

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

$$m = 52,5g$$

16. $A = 7cm^2$
 $h = 12cm$

$$V = ?$$

$$V = A \cdot h$$

$$V = 7cm^2 \cdot 12cm$$

$$V = 84cm^3$$

17. $A = 1,2dm^2$
 $V = 0,36hl = 36l = 36dm^3$

$$h = ?$$

$$h = V : A$$

$$h = 36dm^3 : 1,2dm^2$$

$$h = 30dm$$

18. $V = 2,4dm^3$
 $h = 50cm = 5dm$

$$A = V : h$$

$$A = 2,4dm^3 : 5dm$$

$$A = 0,48dm^2$$

19. $m = 30kg$
 $a = 1m$
 $b = 5dm = 0,5m$
 $c = 3dm = 0,3m$
 $\rho = ?$

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

$$V = 1m \cdot 0,5m \cdot 0,3m$$

$$V = 0,15m^3$$

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

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

$$\rho = 200 kg/m^3$$

20. $a = 30cm$
 $b = 20cm$
 $c = 25cm$
 $\rho = 1000 kg/m^3 = 1 g/cm^3$

$$m = ?$$

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

$$V = 30cm \cdot 20cm \cdot 25cm$$

$$V = 15000cm^3$$

$$m = \rho \cdot V$$

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

$$m = 15000g$$

$$m = 15kg$$

21. $V_1 = 50cm^3$
 $V_2 = 70cm^3$

$$V = ?$$

$$V = V_2 - V_1$$

$$V = 70cm^3 - 50cm^3$$

$$V = 20cm^3$$

22. $m(5jabuka) = 800g$
 $m(1jabuka) = ?$

$$m(1jabuka) = m(5jabuka) : 5$$

$$= 800g : 5$$

$$= 160g$$

23. $m = 1500g$
 $m_1 = 12,5dag = 125g$

$$m_{ostatka} = ?$$

$$m_{ostatka} = m - 3 \cdot m_1$$

$$m_{ostatka} = 1500g - 3 \cdot 125g$$

$$m_{ostatka} = 1500g - 375g$$

$$m_{ostatka} = 1125g$$