

$$1. \alpha. \rho = \frac{m}{V} \rightsquigarrow 0,9 = \frac{m}{2000} \rightsquigarrow m = 0,9 \cdot 2000 \rightsquigarrow m = 1800 \text{ g}$$

$$(V = 2L = 2000 \text{ cm}^3)$$

$$B. V = 1L = 1000 \text{ cm}^3 \quad m = 1800 \text{ g} \quad \rho = \frac{m}{V} = \frac{1800}{1000} = 1,8 \text{ g/cm}^3$$

$$2. \rho_x = \frac{m_x}{V_x} \rightsquigarrow 8,9 = \frac{m_x}{40} \rightsquigarrow m_x = 8,9 \cdot 40 \rightsquigarrow m_x = 356 \text{ g}$$

$$\rho_z = \frac{m_z}{V_z} \rightsquigarrow 7,8 = \frac{m_z}{60} \rightsquigarrow m_z = 7,8 \cdot 60 \rightsquigarrow m_z = 468 \text{ g}$$

ΘΑ ΓΕΙΡΕΙ ΠΡΟΣ ΤΟ ΣΙΔΗΡΟ

$$3. \rho = \frac{m}{V} \rightsquigarrow 2,5 = \frac{20}{V} \rightsquigarrow V = \frac{20}{2,5} \rightsquigarrow V = 8 \text{ cm}^3$$

$$\alpha\lambda\lambda\alpha \quad V_{\text{κυβου}} = \alpha^3 = 8 \text{ cm}^3 \text{ άρα μήκος} = \text{πλάτος} = \text{ύψος} = 2 \text{ cm}$$

$$4. \rho = \frac{m}{V} \rightsquigarrow 2 = \frac{128}{V} \rightsquigarrow V = \frac{128}{2} \rightsquigarrow V = 64 \text{ cm}^3$$

$$\alpha\lambda\lambda\alpha \quad V_{\text{ορθ. πρ.}} = \alpha \cdot \beta \cdot \gamma = 64 \text{ cm}^3 \rightsquigarrow 8 \cdot 4 \cdot \gamma = 64 \rightsquigarrow \gamma = 64 \rightsquigarrow$$

$$\rightsquigarrow \gamma = 64 : 32 \rightsquigarrow \gamma = 2 \text{ cm}$$

$$5. V_k = \alpha^3 = (20 \text{ cm})^3 = 8000 \text{ cm}^3$$

$$\rho = \frac{m}{V} \rightsquigarrow \rho = \frac{150.000}{8000} \rightsquigarrow \rho = 18,75 \text{ g/cm}^3$$

Άρα ο κύβος είναι κούφιος