

Str. 25 / úloha 119

$$m_o = 57 \text{ g}$$

$$m_{\bar{z}} = ? \text{ [g]}$$

$$\rho_o = 11\,340 \frac{\text{kg}}{\text{m}^3} = 11,34 \frac{\text{g}}{\text{cm}^3}$$

$$\rho_{\bar{z}} = 7\,800 \frac{\text{kg}}{\text{m}^3} = 7,8 \frac{\text{g}}{\text{cm}^3}$$

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$$m_{\bar{z}} = \rho_{\bar{z}} \cdot V$$

$$m_{\bar{z}} = 7,8 \cdot 5$$

$$\underline{\underline{m_{\bar{z}} = 39 \text{ g}}}$$

$$V = \frac{m_o}{\rho_o}$$

$$V = \frac{57}{11,34}$$

$$V = 5 \text{ cm}^3$$

Hmotnosť železnej gučky je 39 g.