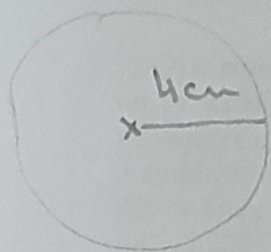


29/6 učebnice

hustota sda - 3800 kg/m^3



$$V = \frac{4}{3} \pi r^3$$

$$V = \frac{4}{3} \cdot \pi \cdot 4^3$$

$$V = 268 \text{ cm}^3 = 0,268 \text{ dm}^3 = 0,000268 \text{ m}^3$$

hmotnost $3800 \text{ kg/m}^3 \cdot 0,000268 \text{ m}^3 = \underline{\underline{1,01 \text{ kg}}}$

29/7 učebnice

ženy 4kg

muži 7,257 kg

hustota oceli - 7800 kg/m^3

ženy

muži

$$4 \text{ kg} : 7800 \text{ kg/m}^3 = 0,0005 \text{ m}^3 = V$$

$$7,257 : 7800 = 0,0009 \text{ m}^3$$

$$V = \frac{4}{3} \pi \cdot r^3$$

$$0,0005 = \frac{4}{3} \pi \cdot r^3 \quad | : \frac{4}{3} \pi$$

$$\sqrt[3]{\frac{0,0009}{\frac{4}{3} \pi}} = r$$

$$\frac{0,0005}{\frac{4}{3} \pi} = r^3 \quad | \sqrt[3]{}$$

$$r = 0,059 \text{ m} = \underline{\underline{6 \text{ cm}}}$$

$$\sqrt[3]{\frac{0,0005}{\frac{4}{3} \pi}} = r$$

pozn:

$$\frac{0,0005}{\frac{4}{3} \pi} = \frac{0,0005}{1} : \frac{4\pi}{3} = \frac{0,0005 \cdot 3}{4\pi}$$

$$0,049 \text{ m} = r$$

$$r = \underline{\underline{5 \text{ cm}}}$$

ÚPRAVA VÝRAZŮ