

14.2 Lösungen

$$\begin{aligned} 1. \quad m_{\text{Al}} &= \underline{\underline{14,26}} \text{ [kg]} \\ m_{\text{Cu}} &= \underline{\underline{47,10}} \text{ [kg]} \\ m_{\text{Stahl}} &= \underline{\underline{41,45}} \text{ [kg]} \end{aligned}$$

$$2. \quad m = \underline{\underline{5,30 \cdot 10^{-3}}} \text{ [kg]} = \underline{\underline{5,3}} \text{ [g]}$$

$$3. \quad d_i = \underline{\underline{280,00 \cdot 10^{-3}}} \text{ [m]}$$

$$4. \quad m = \underline{\underline{233,05 \cdot 10^{-3}}} \text{ [kg]}$$

$$5. \quad m = \underline{\underline{58,73}} \text{ [kg]}$$

$$6. \quad m = \underline{\underline{1,4025 \cdot 10^6}} \text{ [kg]} = \underline{\underline{1'402,5}} \text{ [t]}$$

$$7. \quad m = \underline{\underline{40,11}} \text{ [kg]}$$

$$8. \quad \rho = 2'696,43 \left[\frac{\text{kg}}{\text{m}^3} \right] \rightarrow \underline{\underline{\text{Aluminium}}}$$

$$9. \quad \text{a) } V = \underline{\underline{8,18 \cdot 10^{-6}}} \text{ [m}^3\text{]}$$

$$\text{b) } d = \underline{\underline{24,99 \cdot 10^{-3}}} \text{ [m]}$$

$$10. \quad V = \underline{\underline{20,25 \cdot 10^{-3}}} \text{ [m}^3\text{]} = \underline{\underline{20,25}} \text{ [Liter]}$$

$$11. \quad m = \underline{\underline{4'241,15}} \text{ [kg]}$$

$$12. \quad m = \underline{\underline{2,08}} \text{ [kg]}$$

$$13. \quad m = \underline{\underline{950,29 \cdot 10^{-3}}} \text{ [kg]}$$

$$14. \quad m = \underline{\underline{254,70 \cdot 10^{-3}}} \text{ [kg]}$$

$$15. \quad m = \underline{\underline{6,13}} \text{ [kg]}$$