14.2 Lösungen

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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