

1. $V = 1'500 \text{ cm} \cdot 1'200 \text{ cm} \cdot 18 \text{ cm} = \underline{32'400'000 \text{ cm}^3}$

① $m = 0,2 \frac{\text{g}}{\text{cm}^3} \cdot 32'400'000 \text{ cm}^3 = 6'480'000 \text{ g} = \underline{6,48 \text{ t}} \uparrow$

2. $V = (40 \text{ cm})^3 = \underline{64'000 \text{ cm}^3}$

① $\rho = 112'000 \text{ g} : 64'000 \text{ cm}^3 = \underline{1,75 \frac{\text{g}}{\text{cm}^3}} \uparrow$

3. $V = 6 \text{ dl} = 0,6 \text{ l} = 0,6 \text{ dm}^3 = \underline{600 \text{ cm}^3}$

$m_{\text{Oel}} = 600 \text{ cm}^3 \cdot 0,9 \frac{\text{g}}{\text{cm}^3} = \underline{540 \text{ g}} \uparrow$

② $1'300 \text{ g} - 540 \text{ g} = \underline{760 \text{ g}}$

$V_{\text{Glas}} = 760 \text{ g} : 2,5 \frac{\text{g}}{\text{cm}^3} = \underline{304 \text{ cm}^3} \uparrow$

4. $V = 175'500 \text{ g} : 7,8 \frac{\text{g}}{\text{cm}^3} = \underline{22'500 \text{ cm}^3}$

① $c = 22'500 \text{ cm}^3 : (750 \text{ cm} \cdot 50 \text{ cm}) = 0,6 \text{ cm} = \underline{6 \text{ mm}} \uparrow$

① 5. $v = 3'239 \text{ km} : 3,3 \text{ h} = \underline{980 \frac{\text{km}}{\text{h}}} \uparrow$

6. $t = \frac{90 \text{ km}}{40 \frac{\text{km}}{\text{h}}} + \frac{40 \text{ km}}{15 \frac{\text{km}}{\text{h}}} + \frac{65 \text{ km}}{60 \frac{\text{km}}{\text{h}}}$

$= 2 \frac{1}{4} \text{ h} + 2 \frac{2}{3} \text{ h} + 1 \frac{1}{12} \text{ h} = \underline{6 \text{ h}} \uparrow$

② $195 \text{ km} : 6 \text{ h} = \underline{32,5 \frac{\text{km}}{\text{h}}} \uparrow$

7. a.) $x \text{ h} \cdot 60 \frac{\text{km}}{\text{h}} + (x-1) \text{ h} \cdot 80 \frac{\text{km}}{\text{h}} = 116 \text{ km}$

$60x + 80x - 80 = 116 \quad | + 80$

$140x = 196 \quad | : 140$

$x = \underline{1,4} \uparrow$

③

$13:00 + 1,4 \text{ h} = \underline{14:24} \uparrow$

$$b.) \quad 0,4h \cdot 80 \frac{\text{km}}{h} = \underline{\underline{32 \text{ km}}} \quad 1$$

$$\underline{8.} \quad 12 : 37,35 \text{ Min.} = 757,35 \text{ Sek.} = 12,6225 \text{ Min.} \\ = \underline{\underline{0,210375 h}}$$

$$\textcircled{1} \quad s = 23,767 \frac{\text{km}}{h} \cdot 0,210375h \approx \underline{\underline{5 \text{ km}}} = \underline{\underline{5'000 \text{ m}}} \quad 1$$

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