1. 1. a) $0.2\left[kg\right]=0.2∙1000\left[g\right]=200[g]$ b) 0.00437[kg] = 0.00437–1000[g] = 4.37[g] c) 1.233[kg] = 1.233–1000[g] = 1 233[g]
2. a) 0.3[g] = 0.3–1000[mg] = 300[mg] b) 1.143[g] = 1.143–1000[mg] = 1 143[mg] c) 0.00233[g] = 0.00233–1000[mg] = 2.33[mg]
3. a) 235[kg] = 235–0.001[t] = 0.235[t] b) 1 118[kg] = 1 118–0.001[t]= 1.118[t] c) 50 250[kg] = 50 250–0.001[t] = 50.25[t]
4. 32.58[g] = 32.58–0.001[kg] = 0.032 580[kg] = 32.58–1000[mg] = 32 580[mg]
5. 1.25[t] = 1.25–1000[kg] = 1 250[kg]
6. $Q=mg=0.1\left[kg\right]∙10\frac{\left[N\right]}{\left[kg\right]}=1[N]$
7. $Q=mg=5\left[kg\right]∙10\frac{\left[N\right]}{\left[kg\right]}=50[N]$
8. $Q=mg=260\left[kg\right]∙10\frac{\left[N\right]}{\left[kg\right]}=2 600[N]$
9. $Q=mg=20 700\left[kg\right]∙10\frac{\left[N\right]}{\left[kg\right]}=207 000\left[N\right]=207[kN]$
10. $m=\frac{Q}{g}=\frac{800[N]}{10\frac{\left[N\right]}{\left[kg\right]}}=80[kg]$
11. $m=\frac{Q}{g}=\frac{3000[N]}{10\frac{\left[N\right]}{\left[kg\right]}}=300\left[kg\right]<5∙80[kg]$
12. m = 5–80[kg] + 50[kg] + 850[kg] = 1 300[kg] => $Q=mg=1 300\left[kg\right]∙10\frac{\left[N\right]}{\left[kg\right]}=13 000\left[N\right]=13[kN]$
13. m = 27–(70+24)[kg] + 5 500[kg] = 8 038[kg] => $Q=mg=8 083\left[kg\right]∙10\frac{\left[N\right]}{\left[kg\right]}=80 830\left[N\right]=80.83[kN]$
14. $m=\frac{Q}{g}=\frac{21[N]}{10\frac{\left[N\right]}{\left[kg\right]}}=2.1[kg]$
15. $m=\frac{Q}{g}=\frac{23[N]}{10\frac{\left[N\right]}{\left[kg\right]}}=2.3\left[kg\right]=>V=\frac{m}{ρ}=\frac{2.3[kg]}{1\frac{[kg]}{[dm]^{3}}}=2.3[dm]^{3}=2.3l$; $ 1\frac{[t]}{[m]^{2}}=1\frac{[kg]}{[dm]^{3}}=1\frac{[g]}{[cm]^{3}}$
16. $m=\frac{Q}{g}=\frac{30[N]}{10\frac{\left[N\right]}{\left[kg\right]}}=3\left[kg\right]=>V=\frac{m}{ρ}=\frac{2.3[kg]}{1\frac{[kg]}{[dm]^{3}}}=3[dm]^{3}=3l$
17. $m=\frac{Q}{g}=\frac{25[N]}{10\frac{\left[N\right]}{\left[kg\right]}}=2.5[kg]$ ; $ρ=\frac{m}{V}=\frac{2.5[kg]}{2[dm]^{3}}=1.25\frac{[kg]}{[dm]^{3}}$