grupa A, B

1. (a) $56\,dag = 0,56\,kg$
(b) $83\,ml = 83\,cm^3$
(c) $2\,\frac{g}{cm^3} = 2000\,\frac{kg}{m^3}$
(d) $17,5\,dm^2 = 175000\,m^2$
(e) $305,2\,cm = 3,052\,m$
(f) $1,29\,\frac{kg}{m^3} = 0,00129\,\frac{g}{cm^3}$
(g) $4\,mm = 0,04\,dm$
(h) $25\,mm^2 = 0,000025\,m^2$
(i) $324\,mm^3 = 0,000000324\,m^3$
(j) $37\,g = 0,037\,kg$
(k) $2,5\,l = 2,5\,dm^3 = 2500\,cm^3$
(l) $4500\,mm^3 = 4,5\,cm^3 = 4,5\,ml = 0,045\,dl$

2. $l_1 = 75\,cm = 0,75\,m$
$l = 1200\,m$
$n = ?$

$l = n \cdot l_1 \Rightarrow n = l : l_1$
$n = 1200\,m : 0,75\,m$
$n = 1600$ koraka

3. $a = 67\,dm = 6,7\,m$
$b = 562\,cm = 5,62\,m$

$A = ?$
$A = a \cdot b$
$A = 6,7\,m \cdot 5,62\,m$
$A = 37,654\,m^2$

4. $a = 2,3\,dm = 23\,cm$
$A = ?$

$A = a \cdot a$
$A = 23\,cm \cdot 23\,cm$
$A = 529\,cm^2$

5. $A_1 = 16\,cm^2$
$a = 4,3\,m = 480\,cm$
$b = 4\,m = 400\,cm$

$n = ?$
$A = a \cdot b$
$A = 480\,cm \cdot 400\,cm$
$A = 192000\,cm^2$

$n = A : A_1$
$n = \frac{192000\,cm^2}{16\,cm^2}$
$n = 12000$

6. $d = 9\,mm$
$d_1 = 1,5\,mm$

$n = ?$
$n = d : d_1$
$n = 9\,mm : 1,5\,mm$
$n = 6$

7. $d = 24\,mm$
$n = 368$ str. $: 2 = 184$ lista

$d_1 = ?$
$d = n \cdot d_1 \Rightarrow d_1 = d : n$
$d_1 = 24\,mm : 184$
$d_1 = 0,13\,mm$

8. $a = 45\,cm$
$b = 340\,mm = 34\,cm$
$c = 1{,}35\,m = 135\,cm$

$V = ?$
$V = a \cdot b \cdot c$
$V = 45\,cm \cdot 34\,cm \cdot 135\,cm$
$V = 206550\,cm^3$

9. $a = 35\,cm = 3{,}5\,dm$
$V = ?$

$V = a \cdot a \cdot a$
$V = 3{,}5\,dm \cdot 3{,}5\,dm \cdot 3{,}5\,dm$
$V = 42{,}875\,dm^3$
$V = 42{,}875\,l$

10. $m = 200\,g$
$m_B = 25\,dag = 250\,g$
$m_š = 20\,dag = 200\,g$
$m_p = 5\,g$
$m_o = 10\,dag = 100\,g$

$m_{ukupna} = m + m_B + m_š + m_p + m_o$
$m_{ukupna} = 200\,g + 250\,g + 200\,g + 5\,g + 100\,g$
$m_{ukupna} = 755\,g$

11. $V = 25\,l = 25\,dm^3 = 0{,}025\,m^3$
$m = 20\,kg$

$\rho = \frac{m}{V}$
$\rho = \frac{20\,kg}{0{,}025\,m^3}$
$\rho = 800\,\frac{kg}{m^3}$

12. $m = 1{,}5\,kg$
$\rho = 1{,}293\,kg/m^3$
$V = ?$
$V = \frac{m}{\rho}$
$V = \frac{1{,}5\,kg}{1{,}293\,\frac{kg}{m^3}}$
$V = 1{,}16\,m^3$

13. $a = 6\,dm = 0{,}6\,m$
$b = 40\,cm = 0{,}4\,m$
$c = 0{,}3\,m$
$V = ?$
$V = a \cdot b \cdot c$
$V = 0{,}6\,m \cdot 0{,}4\,m \cdot 0{,}3\,m$
$V = 0{,}072\,m^3$

14. $A = 7\,cm^2$
$h = 12\,cm$
$V = ?$
$V = A \cdot h$
$V = 7\,cm^2 \cdot 12\,cm$
$V = 84\,cm^3$

15. $A = 1{,}2\,dm^2$
$V = 0{,}36\,hl = 36\,l = 36\,dm^3$
$h = ?$
$V = A \cdot h \Rightarrow h = V : A$ ili $h = \frac{V}{A}$
$h = \frac{36\,dm^3}{1{,}2\,dm^2}$
$h = 30\,dm$

16. $V = 24\,dl = 2400\,ml = 2400\,cm^3$
$h = 50\,cm$

$A = ?$

$V = A \cdot h \Rightarrow A = V : h$

$A = 2400\,cm^3 : 50\,cm$

$A = 48\,cm^2$

17. $V = 5\,cm^3$
$\rho = 10{,}5\,\frac{g}{cm^3}$

$m = ?$

$m = \rho \cdot V$

$m = 10{,}5\,\frac{g}{cm^3} \cdot 5\,cm^3$

$m = 52{,}5\,g$

18. $m = 30\,kg$
$a = 1\,m$
$b = 5\,dm = 0{,}5\,m$
$c = 3\,dm = 0{,}3\,m$

$\rho = ?$

$V = ?$

$V = a \cdot b \cdot c$

$V = 1\,m \cdot 0{,}5\,m \cdot 0{,}3\,m$

$V = 0{,}15\,m^3$

$\rho = \frac{m}{V}$

$\rho = \frac{30\,kg}{0{,}15\,m^3}$

$\rho = 200\,\frac{kg}{m^3}$

19. $a = 30\,cm$
$b = 20\,cm$
$c = 25\,cm$
$\rho = 1\,g/cm^3$

$m = ?$

$V = a \cdot b \cdot c$

$V = 30\,cm \cdot 20\,cm \cdot 25\,cm$

$V = 15\,000\,cm^3$

$m = \rho \cdot V$

$m = 1\,\frac{g}{cm^3} \cdot 15000\,cm^3$

$m = 15000\,g = 15\,kg$

20. $V_1 = 50\,cm^3$
$V_2 = 70\,cm^3$

$V = ?$

$V = V_2 - V_1$

$V = 70\,cm^3 - 50\,cm^3$

$V = 20\,cm^3$

21. $m_1 = 800\,g : 5 = 160\,g$

22. $m = 1500\,g$
$n = 3$
$m_1 = 12{,}5\,dag = 125\,g$
$m_2 = ?$

$m_2 = m - 3m_1$

$m_2 = 1500\,g - 3 \cdot 125\,g$

$m_2 = 1500\,g - 375\,g$

$m_2 = 1125\,g$