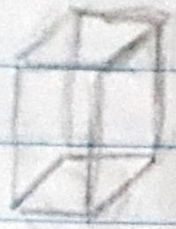
1-)



$A = 80\ m^2$

$80 = 2x^2 + 4.3x$

$2x^2 + 12x - 80 = 0$

$\Delta = 144 - 4.2.(-80)$

$\Delta = 144 + 640$

$\Delta = 784$

$x = \frac{-12 \pm 28}{4}$

$x = \frac{-40}{4}$

$x = -10$

$x = \frac{16}{4}$

$x = 4$

$x = 4\ m$

2-) PRISMA hexagonal regular

$A_B = 24\sqrt{3}\ cm^2$

$24\sqrt{3} = \frac{6\ell^2\sqrt{3}}{4}$

$96\sqrt{3} = 6\ell^2\sqrt{3}$

$16 = \ell^2$

$\ell = 4$

$A_L = 6.4.2\sqrt{3}$

$A_L = 48\sqrt{3}\ cm^2$

3-) Prisma hexagonal regular

$\ell = \sqrt{3}$

$A_B = \frac{6.\ell^2\sqrt{3}}{4}$

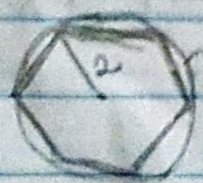
$A_B = 6\sqrt{3}$

$2A_B = 12\sqrt{3}$

$A_L = 6.2.\sqrt{3}$

$A_L = 12\sqrt{3}$

(B)

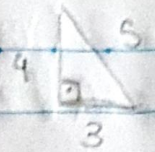


$A_T = 12\sqrt{3} + 12\sqrt{3}$

$A_T = 24\sqrt{3}$

4-) $A_B = \frac{(2+8)\cdot 4}{2}$

$A_B = 20\ m^2$



(D)

$V = 20 \cdot 5 = 100\ m^3$

5-) $A_B = 10 \cdot 15/2$

$A_B = \frac{150}{2}$

$A_B = 75\ cm^2$

$V = 75 \cdot 10$

$V = 750\ cm^3$

(C)

6-)

$V = x \cdot y \cdot 2y$

$V = 2y^2 \cdot x$

$l_1 = z = 2y$

$A_T = 4x^2$

$4x^2 = 2xy + 2xz + 2yz$

$4x^2 = 2(xy + xz + yz)$

$2x^2 = xy + xz + yz$

$2x^2 = xy + x2y + y2y$

$2x^2 = 3xy + 2y^2$

$2y^2 + 3xy - 2x^2$

$\Delta = 3x^2 - 4 \cdot 2 \cdot -2x^2$

$\Delta = 9x^2 + 16x^2$

$\Delta = 25x^2$

$y = \frac{-3x \pm 5x}{4}$

$y = \frac{2x}{4} = \frac{x}{2}$

$y = \frac{-8x}{4} = \cancel{-2x}$

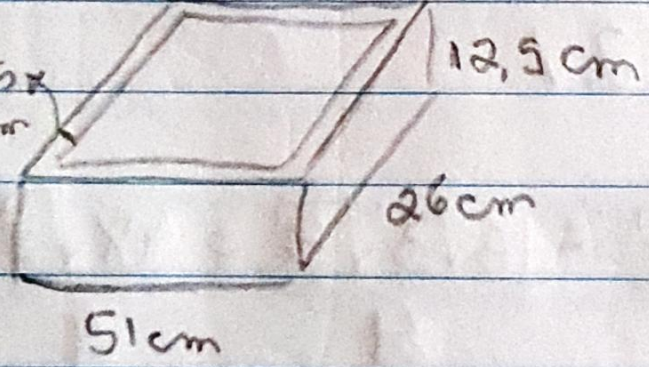
$V = 2\left(\frac{x}{2}\right)^2 \cdot x$

$V = \frac{2x^2}{4} \cdot x$

$V = \frac{x^3}{2}$

(C)

1-)



$A = 51 . 26 . 12,5$

$A = 0,51 . 0,26 . 0,125$

$A = 0,016575\ m^3$

$A_2 = 50 . 25 . 12$

$A_2 = 0,5 . 0,25 . 0,12$

$A_2 = 0,015\ m^3$

(A)

2-) 

$A = 72m^2$

$72 = 6l^2$

$12 = l^2$

$l = \sqrt{12} = 2\sqrt{3}$

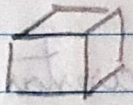
$D = 2\sqrt{3} \cdot \sqrt{3}$

$D = 2 \cdot 3$

$D = 6m$

12	2
6	2
3	3
1	

(B)

3-) 

$V = 50^3$

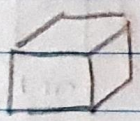
$V = 125.000 cm^3$

$1m^3$ 1000L

$125000m^3$ x

$x = 125L$

(A)

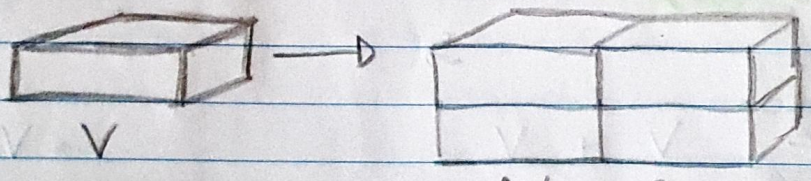
4-) 

$V = 1m^3$

$1m^3 = 1000L$

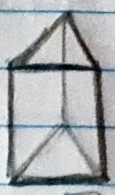
$x = 1L$

$x = 0,001 m$

5-) 

$= 4V$

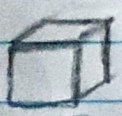
(C)

6-) 

$A_{BASE} = \frac{(4\sqrt{3})^2\sqrt{3}}{4} = \frac{16 \cdot 3\sqrt{3}}{4} = \frac{48\sqrt{3}}{4} = 12\sqrt{3}\ cm^2$

$12\sqrt{3} \cdot h = 192\sqrt{3}$

$h = 16 cm$



$V = (4\sqrt{3})^3$

$V = 64 \cdot 3\sqrt{3} = 192\sqrt{3}\ cm^3$

$A_{TOTAL} = 2(12\sqrt{3}) + 192\sqrt{3}$

$A_T = 24\sqrt{3} + 192\sqrt{3}$

$A_T = 216\sqrt{3}\ cm^2$ (D)

$A_{ARESTAS} = 16 \cdot 4\sqrt{3} \cdot 3$

$A_A = 64\sqrt{3} \cdot 3$

$A_A = 192\sqrt{3}\ cm^2$