Volumen

1)
$$1 l = 1 dm^3 = 1 dm^3 \cdot \frac{(10 cm)^3}{1 dm^3} = 10^3 cm^3 = 1000 cm^3$$

2)
$$1m^3 = 1m^3 \cdot \frac{(20lm)^3}{1m^3} = 10^3 dm^3 = 10^3 l = 1000 l$$
.

1)
$$10^{-9}g = 1 \text{ mg}$$
 1 $fg = 10^{-15}g$

brad : And : 27 ad = 57,89°.

Deunidad.

2) Agua
$$e = \frac{1}{2} \frac{1}{2}$$

$$e^{-1kg/e} = \frac{1kg}{(0.1m)^3} = \frac{10^{-3} kg/m^3}{(0.1m)^3} = 0.001 kg/m^3$$

2)
$$\ell = 13579,04 \text{ kg/m}^3$$
 $\ell = 13600 \text{ kg/m}^3$
 $V = 76 \text{ cm}^2 = 76 \text{ cm}^3$

$$m = f \cdot V = 13579.04 \text{ kg/m}^3 \cdot 76 \text{ cm}^2 = 13579.04 \text{ kg} \cdot 76 \text{ cm}^3 = (100 \text{ cm})^3$$

$$= \frac{13579,04}{106} kg. . 76 = 1,032 kg$$

$$m = 1,032 \text{ kg}$$
 $m = 1,0336 \text{ kg}$ $con \beta = 13600 \text{ kg/m}^2$

Mol.

1) Mol de agua. Tengo Na = 6.022.1023 moléculas de agua. la risma chlad de oxigens (6.022.1023) \$1.2014.1024

Freemercia

1)
$$\int_{-2}^{2} \frac{90 \text{ veces/nin}}{60s} = \frac{3}{2} \frac{3}{2} = \frac{1.5 \text{ Hz}}{2}$$
.

Augules.

Augules.

$$|2^{\circ}|^{2} |3^{\circ}|^{4} = \left(|2^{\circ}|^{2} + \frac{|3^{\circ}|^{2}}{60^{\circ}} + \frac{|4^{\circ}|^{2}}{360^{\circ}}\right)^{\circ} = |2^{\circ}|^{2} |2^{\circ}|^{2} = |2^{\circ}|^{2} = |2^{\circ}|^{2} |2^{\circ}|^{2} = |2^{\circ}$$

3)
$$31'' 31'' = \left(\frac{31}{60} + \frac{31}{3600}\right)^{\circ} = \frac{0.525^{\circ}}{0.525^{\circ}} = \frac{0.525^{\circ}}{180^{\circ}} = \frac{0.00916}{180^{\circ}} = \frac{0.00916$$

2)
$$32 \text{ kp} = 32 \text{ kp} \cdot \frac{9.8 \text{ N}}{9.8 \text{ p}} = \frac{313,6 \text{ N}}{9.8 \text{ N}}$$

Prenia.

1PA = IN/m² gradeur que IN = 105 dyn.

1 baria = 1 dyn/cm² j 1500 = 106 baria

 $2 Pa = 1 N/m^2 \cdot \frac{10^5 dyn}{10^4 cm^2} = 10 5 arias.$

I la = 10 barias = 10 · 10 = 5 der = 10 - 5 der = 10 5 la.

Later = 760 mmlly : Peso columna de morcurio de 76 cm.
Lección Icuz.

m 76 m ly = 1,032 kg

Can 13600g - 2,0336kg. 9,8 m/s = 101 292,8Pa

mejor aprox.

Jatn = $\frac{M_{76auly} \cdot g}{1 cm^2} = \frac{1.032 kg \cdot 9.8 m/s^2}{(0.01 m)^2} = \frac{103136 Pa.}{101325 R}$

101325 R I Pa = 9,81.10 atm.)

+ W= F.d = 2000 N 0, JUN = -

3) 1 bar = 105 Pa 1 mbar = 100 Pa.

1 atm = 101 136 Pa = 101 136 Pa · 100 Pa 1013,3 mber.

Jata = 101292,8 Ra. Imber = 1012,9 mber 100 Pa = 1013 mber.

Tempeature. M°F = × °C + B |212°F = 2.100°C + P |32°F = 2.0°C + B = B - 32°F - 0°C 212°F = 2.100°C + 32°F d = 212. F-32. F = 1,8 . F/c of = 1,8 of oc + oc + 32 of 0 = 1,8 % + 32) - Fónde de convenión. Evergen. $E_i = 300J$ $E_j = E_i = \frac{1}{2}mv^2 \Rightarrow v = \sqrt{\frac{2E_i}{m}}$ N = 100g $A = \frac{V_1^2 - V_1^2}{2s} = \frac{(77,45m/s)^2}{2 \cdot 10m} = \frac{6000 \text{ m}^2/\text{s}^2}{2 \cdot 0.10m} = \frac{3 \cdot 10^4 \text{ m/s}^2}{2 \cdot 0.10m}$ 1) F: m.a = 0, 3 kg. 3.10 m/s2 = 3000 N. *) W: F.d: 3000 N. 0,3cm = 300 J. 2) 1] = JN. Im = 10 5 dyn. 100 an = 10 2 dyn. cm = 10 2 erg. 1 cal = 4,199 - 1] = 1 cal : 0,24 cal.

4) $E_p = mgh \Rightarrow W = F \cdot d = 75 \text{ kp} \cdot 1m = 75.9,8 \text{ N} \cdot 1m = 7.35 \text{ J}$ $P = E_{\ell} = 7350/_{15} = 735 \text{ G}.$