

Feinstein

$$\text{El } 2 \text{ por } 3 = \frac{2}{3}$$

$$\text{El } 7 \text{ por } 23 = \frac{7}{23}$$

$$\text{El } 1 \text{ por } 100 = \frac{1}{100}$$

$$\text{El } 3 \text{ por } 100 = \frac{3}{100}$$

$$\frac{1}{100} = \%$$

$$4\% \quad 4 \cdot \frac{1}{100} = \frac{4}{100}$$

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* Obv

$$\text{El } 100 \text{ por } 100 = \frac{100}{100} = 100\%$$

$$* 100 \cdot \left(\frac{1}{100} \right)$$

$$N = 100\% N$$

$$\frac{a}{100} + 20\% \frac{a}{100} = 120\% \frac{a}{100}$$

$$\frac{P_c}{100} + 20\% \frac{P_c}{100} = 120\% \frac{P_c}{100}$$

$$X + 20\% X =$$

$$D_u = \left[a + b - \frac{a \cdot b}{100} \right] \%$$

$$\frac{20 + 10 - \frac{20 \cdot 10}{100}}{100}$$

$$\frac{30 - 2}{100}$$

$$D_u = 28\%$$

$$A_u = \left[a + b + \frac{a \cdot b}{100} \right] \%$$

$$\frac{30 + 2}{100}$$

$$A_u = 32\%$$

$$120\% \cdot 110\%$$

$$\frac{120 \cdot 110}{100} \% = 132\%$$

$$P_v = P_c + g_{\text{venta}}$$

$$P_v = P_c - D$$

$$P_v = P_c - P$$

$$g = x\% P_c$$

$$D = y\% P_c$$

$$P = w\% P_c$$

* MEZCLAS

$$A_1 \quad P_1 = 4 \quad 12$$

$$A_2 \quad P_2 = 3 \quad 6$$

$$A_3 \quad P_3 = 2 \quad 10$$

costo total.

$$120 +$$

$$60$$

$$\frac{100}{280}$$

CANTIDAD TOTAL 100kg

$$P_{\text{mezcla}} = \frac{280}{100} = 2,8$$

$$P_{\text{costo}} : P_{\text{equivalencia}} = 2,8$$

$$P_v = x$$

$$g = 20\% P_c$$

$$P_v = P_c + g$$

$$P_v = P_c + 20\% P_c$$

$$P_v = 120\% P_c$$

$$P_v = \frac{120}{100} \cdot 2,8 = 3,36$$

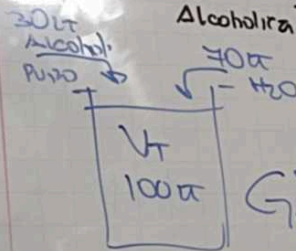
$$P_M = \frac{P_1 C_1 + P_2 C_2 + P_3 C_3}{C_1 + C_2 + C_3}$$

Grado Mezcla:

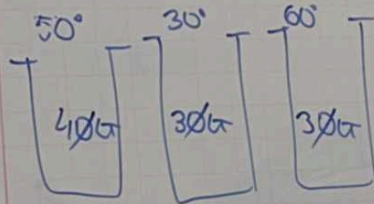
$$\% < > ^\circ$$

$$40\% < > 40^\circ$$

$$G_{\text{mezcla}} = \frac{V_{\text{Alcohol Puro}} \cdot 100\%}{V_{\text{TOTAL DE LA MEZCLA}}}$$



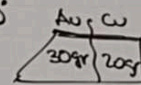
$$G_M^\circ = \frac{30 \times 100\%}{100} = 30^\circ < > 30\%$$



$$G_{\text{MEDIO}} = \frac{40 \cdot 50 + 30 \cdot 30 + 30 \cdot 60}{200 + 90 + 180} = 47\%$$

LEY DE ALMEY

$$Ley = \frac{\text{CANTIDAD TOTAL METAL FINO}}{\text{CANTIDAD TOTAL DE LA MEZCLA}}$$



$$Ley = \frac{38}{58} = \frac{2}{5} = 0,60$$

MÉTOD FINO

Oro, plata, platina

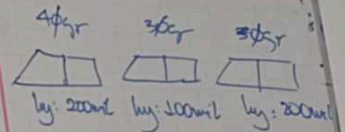
$$Ley = \frac{20}{50} = \frac{2}{5} = 0,4$$

MÉTD ORDINARIO

Fino, Cubito, Zila

$$\frac{3}{5} + \frac{2}{5} = 1$$

$$Ley + Leya = 1$$



$$Ley_{\text{MEDIO}} = \frac{200 + 200 + 600}{10} = \frac{1700}{10} = 170$$

$$Ley = 0,17$$

MEDIO

Feinstein
Sol ①

$$20\% N = 40\% \cdot 5\% \cdot 600$$

$$\frac{20}{100} N = \frac{40}{100} \times \frac{5}{100} \cdot 600$$

$$N = 60 \quad \checkmark$$

Straw Cards Versus Jokers

Sol ②

$$20\% N = 40\% \cdot 5\% \cdot 600$$

$$\frac{20}{100} N = \frac{40}{100} \times \frac{5}{100} \cdot 600$$

$$N = 60$$

Sol ③

$$X\% (0,04) = 0,0028$$

$$\frac{X}{100} \cdot \frac{4}{100} = \frac{28}{10000}$$

$$X = 7$$

$$Sol ④ \quad A = \frac{3}{5} \cdot \frac{2}{1000} \cdot 10000 = 120$$

$$B = \frac{5}{8} \cdot \frac{1}{1000} \cdot 40000 = 100$$

$$\frac{20}{100} (220) = 22$$

$$X + 30\% X = 260$$

$$100\% + 30\% X = 260$$

$$130\% X = 260$$

$$\frac{X}{100} = \frac{2}{1}$$

$$X = 200 \quad \checkmark$$

$$Sol ⑤ \quad \left. \begin{array}{l} D_1 = 10\% : 90\% \\ D_2 = 20\% : 80\% \\ D_3 = 30\% : 70\% \end{array} \right\}$$

$$= 90\% \cdot 80\% \cdot 70\%$$

$$= 50,4\%$$

$$100\% - 50,4\% = 49,6\%$$

Sol ⑥

$$X - 40\% X =$$

$$100\% X - 40\% X = 12$$

$$60\% X = 12$$

$$\frac{60}{100} X = \frac{12}{1}$$

$$X = 20$$

$$Sol ⑦ \quad P_V = P_C - P$$

$$P_V = 120$$

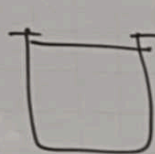
$$P_C = 150$$

$$P = 30$$

$$\frac{30}{150} \cdot 100\%$$

$$20\%$$

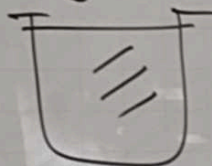
Sol (16)



Mezcla
80L
g = 60%

$$\begin{aligned} V. \text{ Alcohol} &= 60\% \cdot 80 \\ V. \text{ Alcohol} &= 48 \text{ L} \\ V. \text{ Agua} &= 32 \text{ L} \end{aligned}$$

X L (H₂O)



Mezcla:

$$20\% = \frac{48 \text{ L}}{80 + X}$$

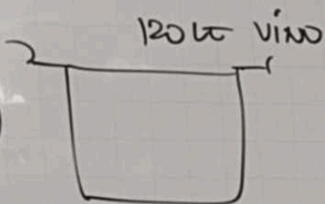
$$32 + X = 240$$

$$X = 240$$

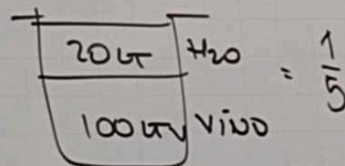
$$80 + X = 240$$

$$X = 160$$

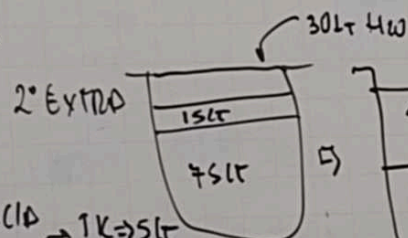
Sol (25)



1° Extra: 20 vino



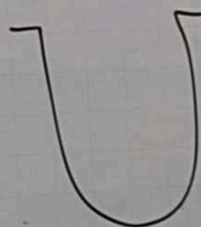
$$= \frac{1}{5}$$



Mezcla
80L
1L → 5L
5L → 25L

$$\frac{3}{48} = \frac{3}{5}$$

$$\begin{aligned} 6L &= 30L \\ k &= 5L \end{aligned}$$



$$40L$$

$$\begin{aligned} 8L &= 40 \\ k &= 5 \end{aligned}$$

$$\begin{aligned} 3L &\rightarrow 15 \\ 5L &\rightarrow 25 \end{aligned}$$

Volumen Final = 50L vino