

1

Datos.

Grupo 1

$$N_c = 6$$

$$C = 4$$

$$C_1 = 10$$

$$M_{NC} = 2$$

$$M_c = 2$$

$$M_h = 4$$

$$H_1 = 6$$

$$H_{NC} = 4$$

Grupo 2 : $2G_2 = G_1$

$$C = 10$$

$$G_2 = 20$$

$$M_2 = 9$$

$$M_c = 4$$

$$H_c = 6$$

$$H_2 = 11$$

$$H_{NC} = \frac{G_2}{4} = 5$$

$$M_{NC} = 5$$

A)

	Hombres	Mujeres	Conductores	No Conductores
Grupo 1	6	4	4	6
Grupo 2	11	9	10	10

b) $H_{NC} + M_{NC} = 10$
 $5 + 5 = 10$

~~Reserva~~ $M_{CT} = M_{C1} + M_{C2}$

$$M_{CT} = 2 + 4$$

$$M_{CT} = 6$$

$$C_T = C_1 + C_2$$

$$C_T = 14$$

$$C_T = 4 + 10$$

$$14 \rightarrow 100\%$$

$$6 \rightarrow x$$

$$x = 42,85\%$$

% Mujeres conductores respecto al total de conductores.

$$c) NC_T = NC_1 + NC_2$$

$$NC_T = 6 + 10 \quad NC_T = 16$$

$$CT = 14$$

$$\frac{16}{14} = \boxed{\frac{8}{7}}$$

$$d) HNC_T = HNC_{G_1} + HNC_{G_2}$$

$$HNC_T = 4 + 5$$

$$\bullet HNC_T = 9$$

$$\bullet G_2 = 20$$

$$20 \rightarrow 100\%$$

$$9 \rightarrow x$$

$\boxed{x = 45\%}$ El 45% de los hombres no conductores
con respecto al grupo Z.

$$e) \Pi NC_T = \Pi NC_{G_1} + \Pi NC_{G_2}$$

$$\Pi NC_T = 20 + 5$$

$$\Pi NC_T = 7$$

$$\frac{\Pi NC_T}{\Pi_T} = \boxed{\frac{7}{13}}$$

$$\Pi_T = \Pi G_1 + \Pi G_2$$

$$\Pi_T = 4 + 9$$

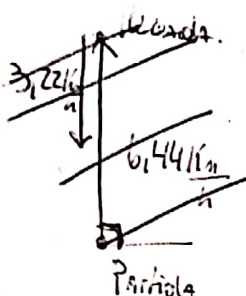
$$\Pi_T = 13$$

Pregunta 2

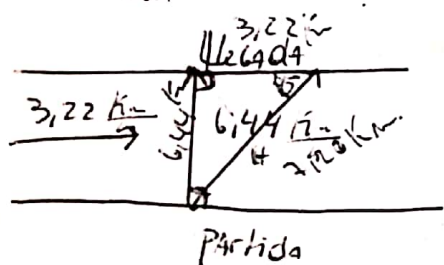
$$V = 6,44 \text{ Km/h}$$

$$V_c = 3,22 \text{ Km/h}$$

A)



Debería apuntar en 90° con respecto al punto de llegada.



$$H = \sqrt{V_c^2 + V^2}$$

$$H = \sqrt{(3,22)^2 + (6,44)^2}$$

$$H = 7,20$$

$$\alpha = 45^\circ$$

b)

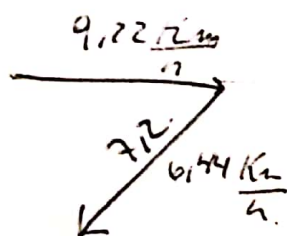
$$1 \text{ h} \longrightarrow 6,44 \text{ Km.}$$

$$x \longrightarrow 7,20 \text{ Km}$$

$1,12 \text{ H}$ le demora $1,12 \text{ H}$ en cruzar el río. Si tiene una corriente que afecta la trayectoria

c)

$$1 \text{ h} \longrightarrow 6,44 \text{ Km}$$



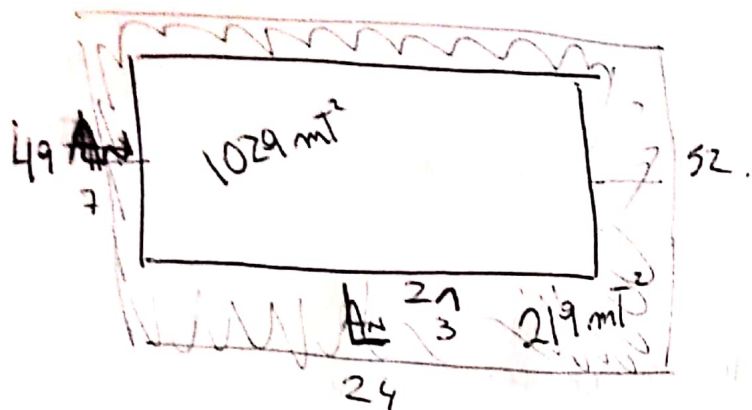
$$3,22 \text{ Km} \longrightarrow 1 \text{ h}$$

$$3,22 \text{ Km} \longrightarrow x \quad x = 0,35 \text{ h.}$$

$$1,22 + 0,35 = 1,57 \text{ h}$$

$$\underline{\underline{\text{Le demora } 1,57 \text{ h.}}}$$

3)



~~7K + 3K = Area de la chapa~~

~~2AK = Area de la chapa~~

~~29 m + 49 m = Area de chapa~~

1029 m² = Area de chapa

$52 \cdot 24 = 1248 \rightarrow 1248 - 1029 = \text{Area Franja}$

b) $219 \text{ m}^2 = \text{Area Franja}$

$\frac{3}{7} = \frac{21}{x}$

$3x = 147$

$x = 49$ ~~Area de Ancho~~

c)

$1g \rightarrow 10 \text{ m}^2$

$xg \rightarrow 219 \text{ m}^2$

$21,9 \text{ galones} \cdot 2 \rightarrow \boxed{43,8 \text{ galones}}$ Para pintar la franja solicitada con 2 manos de esmalte se requieren 43,8 galones.