

Nombre: Cadete Catalina concha Torres n° 3. Curso: 2° Daga.

Pregunta n° 1:

A:	Conduct.	No cond.	T	B:	Conduct	No cond.	T
♂	2	4	6	♂	6	$\frac{1}{4}x = 5$	11
♀	2	$\frac{1}{3} \cdot 6 = 2$	4	♀	4	5	9
T.	4	6	$\frac{x}{2} = 10$	T	10	10	$x = 20$

a) ✓

$$b) \% \frac{\text{♀ cond}_{A+B}}{T \text{ cond}_{A+B}} = \frac{(2+4)}{(4+10)} = \frac{6}{14} \cdot 100 = 42,857\%$$

$$c) \frac{\text{NO cond}_{A+B}}{T \text{ cond}_{A+B}} = \frac{(6+10)}{(4+10)} = \frac{16}{14} = \frac{8}{7}$$

$$\rightarrow \text{NO cond}_{(A+B)} : T \text{ cond}_{(A+B)} = 8 : 7.$$

$$d) \% \frac{\text{♂ NO cond}_{(A+B)}}{T \text{ pers. (B)}} = \frac{(4+5)}{20} = \frac{9}{20} \cdot 100 = 45,00\%$$

$$e) \frac{\text{♀ NO cond}_{(A+B)}}{T \text{ ♀ (A+B)}} = \frac{(2+5)}{(4+9)} = \frac{7}{13}$$

$$\rightarrow \text{♀ NO cond}_{(A+B)} : T \text{ ♀ (A+B)} = 7 : 13.$$

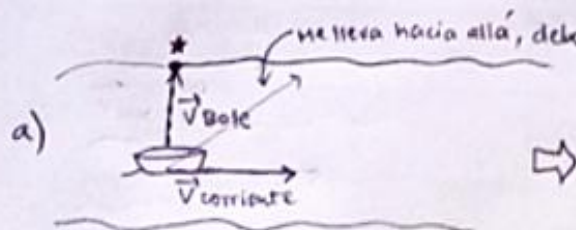
Pregunta n°2.



Razon

$$6,44 \frac{\text{km}}{\text{h}} \rightarrow \text{Abajo}$$

$$3,22 \frac{\text{km}}{\text{h}} \rightarrow \text{Río.}$$



b)

$$x = \sqrt{6,44^2 - 3,22^2}$$

$$x = 5,577 \left[\frac{\text{km}}{\text{h}} \right]$$

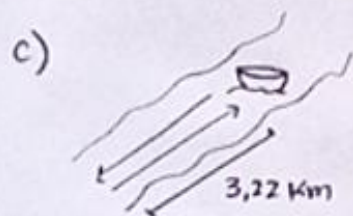
$$\cos \alpha = \frac{CO}{CA} = \frac{3,22}{6,44} = 0,5$$

$$\rightarrow \alpha = 30^\circ + 90^\circ = 120^\circ$$

El bote debe apuntar al NW

$$V = \frac{d}{t} \left\{ \frac{6,44 \frac{\text{km}}{\text{h}}}{5,577 \frac{\text{km}}{\text{h}}} = t \rightarrow 1,1547 \text{ horas} \right.$$

$$(1 \text{ h } 09 \text{ min } 16,92 \text{ seg})$$



(3,22 km a favor de la corriente)
+ (3,22 km en contra de la corriente)

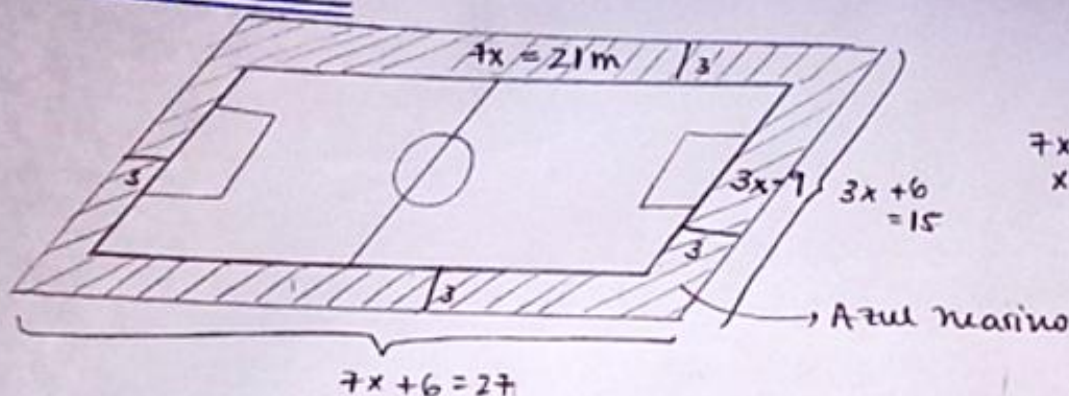
$$V = \frac{d}{t} \left\{ t = \frac{d}{V} \right.$$

$$t_{\text{A favor}} = \frac{3,22 \text{ km}}{(6,44 \frac{\text{km}}{\text{h}} + 3,22 \frac{\text{km}}{\text{h}})} = 0,3 = \approx 20 \text{ minutos}$$

$$t_{\text{en contra}} = \frac{3,22 \text{ km}}{(6,44 \frac{\text{km}}{\text{h}} - 3,22 \frac{\text{km}}{\text{h}})} = 1 = 1 \text{ hora}$$

$$\underline{\text{Total}} = 20 \text{ minutos} + 1 \text{ hora} = 1 \text{ h } 20 \text{ min.}$$

Pregunta n°3.



$$\begin{aligned} 7x &= 21 \\ x &= 3 \end{aligned}$$

$$(24)(12) - (21)(9)$$

se desea pintar $A_f = A_{\text{Total}} - A_{\text{cancha}}$.

$$\begin{aligned} \text{Largo} &= 21 \\ \text{Ancho} &= 9 \end{aligned}$$

$$A_f = (3x + 6)(7x + 6) - (3x)(7x)$$

$$A_f = (21x^2 + 9x + 21x + 9) - 21x$$

$$A_f = 21x^2 + 9x + 9$$

$$\begin{aligned} A_f &= 21(9) + 9(3) + 9 \\ A_f &= 225 \end{aligned}$$

$$\begin{aligned} A_f &= A_T - A_C \\ A_f &= (27)(15) - (21)(9) \\ A_f &= 405 - 189 \\ A_f &= 216 \checkmark \end{aligned}$$

$10 \frac{\text{m}^2}{\text{gal}} \rightarrow$ con 1 galon pinto 10 m^2 por mano

$$\frac{216 \text{ m}^2 (\text{cant. total})}{10 \text{ m}^2/\text{gal}} = 21,6 \text{ gal (necesito)}$$

$\sim 22 \text{ gal} \times 2 \text{ manos}$

R: Necesitaré 43,2 galones
(~ 44 galones) (es mejor que me sobre pintura).
para 2 capas (manos).