

Tarea 2 Ecuaciones Lineales

Ejercicios

1- $-6(x - 1) = -5(x + 2)$

$$-6x + 6 = -5x - 10$$

$$6 + 10 = -5x + 6x$$

$$16 = x$$

2- $\frac{1}{2} = \frac{4}{5}x - \frac{1}{4}$

$$20\left(\frac{1}{2}\right) = 20\left(\frac{4}{5}x\right) - 20\left(\frac{1}{4}\right)$$

$$10 = 16x - 5$$

$$10 + 5 = 16x$$

$$\frac{15}{16} = x$$

3- $4.7x - 3.6(x - 1) = 4.9$

$$4.7x - 3.6x + 3.6 = 4.9$$

$$4.7 - 3.6x = 4.9 - 3.9$$

$$1.1x = 1.3$$

$$x = \frac{1.3}{1.1}$$

$$4- 2(11) + 2x = 38$$

$$22 + 2x = 38$$

$$2x = 38 - 22$$

$$2x = 16$$

$$x = \frac{16}{2}$$

$$x = 8$$

El ancho del arenero es de 8 pies

$$5- 5(2.63) + 0.15x = 400$$

$$13.15 + 0.15x = 400$$

$$0.15x = 400 - 13.15$$

$$x = \frac{386.85}{0.15}$$

$$x = 2,579$$

El costo total de alimentos y bebidas vendidas es de \$2579

Tema 2 Ecuaciones Lineales

1) $-6(x-1) = -5(x+2)$

$$-6x + 6 = -5x - 10$$

$$10 + 6 = -5x + 6x$$

$$16 = x$$

R/ $x = 16$

2)

$$\frac{1}{2} = \frac{4x}{5} - \frac{1}{4}$$

MCM

$$\begin{array}{r|l} 2 & 5 & 4 & 2 \\ \hline 1 & 5 & 2 & 1 \\ 1 & 5 & 1 & 5 \\ 1 & 1 & 1 & \end{array}$$

$$20 \left(\frac{1}{2} \right) = 20 \left(\frac{4x}{5} \right) - 20 \left(\frac{1}{4} \right)$$

$$10 = 16x - 5$$

$$10 + 5 = 16x - 5$$

$$15 = 16x - 5$$

$$10 + 5 = 16x - 5$$

$$15 = 16x - 5$$

$$15 = 16x - 5$$

R/ $x = \frac{15}{16}$

MCM=20

$$3- 4.7x - 3.6(x-1) = 4.9$$

$$4.7x - 3.6x + 3.6 = 4.9$$

$$1.1x + 3.6 = 4.9$$

$$1.1x = 4.9 - 3.6$$

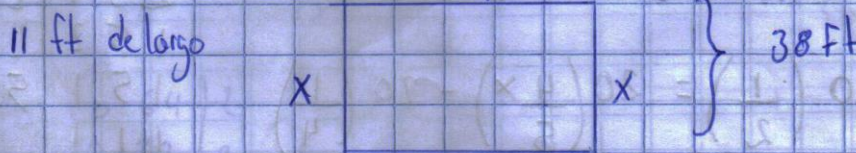
$$1.1x = 1.3$$

$$x = \frac{1.3}{1.1}$$

$$R/ 1.3 / 1.1 = 9$$

4-

$$\text{Arenero } 11 \text{ ft} - x = 1$$



$$2(11) + 2x = 38$$

$$22 + 2x = 38$$

$$2x = 38 - 22$$

$$2x = 16$$

$$x = \frac{16}{2}$$

$$x = 8$$

$$\begin{array}{r} 22 \text{ ft largo} \\ 16 \text{ ft ancho} \\ \hline 38 \text{ ft} \end{array}$$

R/ De ancho el arenero tendra 8 ft

5- Datos

Sueldo = 2.63 h + 15% ct de alimentos

horas trabajada = 5 h

Costo Total = X
de Comida vendida

$$5(2.63) + 0.15X = 400$$

$$13.15 + 0.15X = 400$$

$$0.15X = 400 - 13.15$$

$$0.15X = 386.85$$

$$0.15X = 386.85$$

$$0.15$$

$$X = 2579$$

R/ El costo total de los alimentos
y bebidas que ella sirvió fue de 2,579

Comprobación:

$$5(2.63) + 0.15X = 400$$

$$13.15 + 0.15(2,579) = 400$$

$$13.15 + 386.85 = 400$$

$$400.00 = 400$$