

Part II

Q. 20.

$$8. \quad 21(6y) + 21\left(\frac{1}{3}(x-6y)\right) + 21\left(\frac{1}{7}(x)\right) = 21x$$

$$1344 + 7(x-6y) + 12x = 21x$$

$$1344 + 7x - 42y + 12x = 21x$$

$$1344 - 42y = 21x - 7x - 12x$$

$$896 = 2x$$

$$x = 896/2 = 448$$

Part III

$$9. \quad 3x - 4 = 2x$$

$$x = 4$$

$$10. \quad (x) + (x+1) + (x+2) = 21 + (x+2)$$

$$3x + 3 = 23 + x$$

$$2x = 20$$

$$x = 10 \quad \rightarrow \quad x + 1 = 11$$

$$11. \quad x = \frac{1}{4} (300 - x)$$

$$4x = 300 - 4x$$

$$8x = 300$$

$$x = 37.5$$

$$12. \quad 4x - 8 = x + 13$$

$$3x = 21$$

$$x = 21/3$$

$$x = 7$$

$$13 - (x) + (x+1) = 26 + (x+1)$$

$$2x + 1 = 26 + x + 1$$

$$x = 26$$

$$14 - x + y = 106$$

$$\text{M}_1 \\ x + (x+8) = 106$$

$$2x = 98$$

$$x = 49$$

$$\text{M}_2 = x + 8 = 57$$

15

$$\begin{array}{|c|c|c|} \hline x & x & \\ \hline \frac{2}{9}x & \frac{2}{9}x + 6 & \frac{4}{9}x \\ \hline \end{array}$$

$$\frac{2}{9}x + \frac{2}{9}x + 6 + \frac{4}{9}x = x$$

$$2x + 2x + 54 + 4x = 9x$$

$$54 = 7x$$

16 * cuadernos

* bonadores

$$80x + 120x = 7200$$

$$200x = 7200$$

$$\text{total} = x = 36$$

72 artículos
comprados

$$17. - 300 = T$$

$$x = \text{sales}$$

$$x = 140$$

$$104 - 10 = x$$

$$84 + 20 = x$$

$$134 + 10 = 2x$$

$$94 + 5 = x$$

$$\Rightarrow 104 - 10 = 94 + 5$$

$$\text{chupete} = x = 15 //$$

$$18. n + n + 2 + n + 2 = 24 + n$$

$$2n = 20$$

$$n = 20/2$$

$$n = 10$$

$$n + 2 = 10 + 2 = 12 //$$

$$19. x = \frac{1}{4} (300 - x)$$

$$4x = 300 - x$$

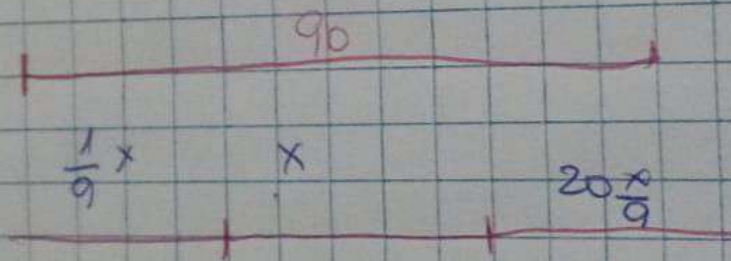
$$\cancel{x} = 37.5$$

$$x = \frac{1}{4} (300 - x)$$

$$x = 37.5$$

$$x = 38 \frac{1}{2}$$

20.



$$\frac{1}{9}x + x + \frac{20x}{9} = 90$$

$$x + 9x + 20x = 810$$

$$\cancel{30}x = 81\cancel{0}$$

$$x = 27$$

Equaciones

$$2. \quad x - \frac{x}{4} = \frac{x}{6} + 7$$

$$12 \left(x - \frac{x}{4} \right) = 12 \left(\frac{x}{6} + 7 \right)$$

$$\underbrace{12x - 3x} = 2x + 7$$

$$9x = 2x + 7$$

$$9x - 2x = 7$$

$$7x = 7$$

$$x = 1 //$$

$$4. \quad \frac{(z+2)}{4} - \frac{(z-1)}{3} = \frac{(z+4)}{8} - \frac{3z}{2}$$

$$\frac{24 \times (z+2)}{4} - \frac{24 \times (z-1)}{3} = \frac{24 \times (z+4)}{8} - \frac{24 \times 3z}{2}$$

$$6 \times (z+2) - 8 \times (z-1) = 3 \times (z+4) - 12 \times (3z)$$

$$6z + 12 - 8z + 8 = 3z + 12 - 36z$$

$$6z - 8z - 3z + 36z = 12 - 12 - 8$$

$$31z = -8$$

$$z = -8/31 //$$

$$6. \quad \frac{2(y+1)}{3} - \frac{3(1-y)}{4} = \frac{3(y+2)}{8}$$

$$\frac{24 \times 2 \times (y+1)}{3} - \frac{24 \times 3 \times (1-y)}{4} = \frac{24 \times 3 \times (y+2)}{8}$$

$$16(y+1) - 18(1-y) = 9(y+2)$$

$$16y + 16 - 18 + 18y = 9y + 18$$

$$16y + 18y - 9y = 18 + 18 - 16$$

$$25y = 20$$

$$y = 20/25$$

$$y = \frac{4}{5}$$