

2017)  $X = \text{CAVAS AZULES}$

$Y = \text{CAVAS ROJAS}$

|        | CAVAS | BOLÍGRAFOS |                       |
|--------|-------|------------|-----------------------|
| AZULES | $X$   | $20X$      | $20X + 15Y = 270$     |
| ROJAS  | $Y$   | $15Y$      | $15Y = \frac{20X}{2}$ |
| TOTAL  |       | $270$      |                       |

$$20X + 15Y = 270 \quad \left| \quad 20X = 270 - 15Y \Rightarrow X = \frac{270 - 15Y}{20}$$

$$15Y = 10X \quad \left| \quad X = 13.5 - 0.75Y$$

$$15Y = 10(13.5 - 0.75Y) \quad \left| \quad 15Y - 7.5Y = 135 \quad \left| \quad Y = \frac{135}{22.5} = 6 \text{ CAVAS ROJAS}$$

$$15Y = 135 - 7.5Y \quad \left| \quad 22.5Y = 135 \quad \left| \quad X = 13.5 - 0.75 \cdot 6 = 9 \text{ CAVAS AZULES}$$

$$20x + 15y = 270$$

$$15y = 10x$$

$$20x + 10x = 270$$

$$30x = 270$$

$$x = \frac{270}{30} = 9 \text{ CAJAS AZUCAR}$$

$$15y = 10 \cdot 9 = 90$$

$$y = \frac{90}{15} = 6 \text{ CAJAS ROLLO}$$

$$2016) \quad \begin{aligned} X &= \text{kg DE MANZANAS} \\ Y &= \text{kg DE PERAS} \end{aligned}$$

$$\begin{aligned} X + Y &= 6 \\ X &= 3Y \end{aligned} \quad \left\{ \begin{aligned} X &= 6 - Y \\ 6 - Y &= 3Y \end{aligned} \right.$$

$$6 = 3Y + Y$$

$$6 = 4Y \Rightarrow Y = \frac{6}{4} = 1.5 \text{ kg PERAS}$$

$$\Rightarrow X + 1.5 = 6 \Rightarrow X = 6 - 1.5 = 4.5 \text{ kg DE MANZANAS}$$

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$$3Y + Y = 6 \Rightarrow 4Y = 6 \Rightarrow Y = \frac{6}{4} = 1.5 \text{ kg PERAS}$$