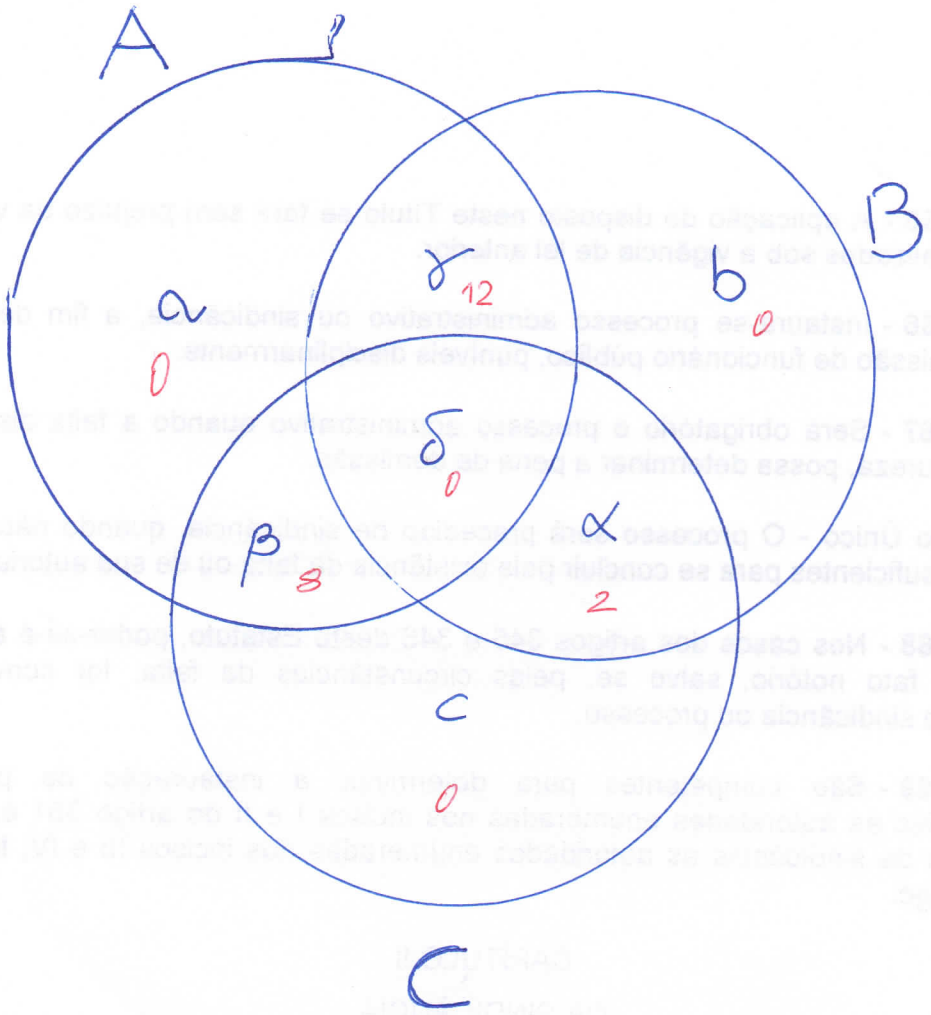

$$N(A \cup B \cup C) = a+b+c+\alpha+\beta+\gamma+\delta$$

$$N(A) = a+\beta+\gamma+\delta \qquad N(A \cap B) = \gamma+\delta$$
$$N(B) = \alpha+b+\gamma+\delta \qquad N(A \cap C) = \beta+\delta$$
$$N(C) = \alpha+\beta+c+\delta \qquad N(B \cap C) = \alpha+\delta$$

$$N(A \cap B \cap C) = \delta$$

$$N(A \cup B \cup C) = N(A)+N(B)+N(C) - N(A \cap B) - N(A \cap C) - N(B \cap C) + N(A \cap B \cap C)$$

$N(A) = 20 \quad N(B) = 14 \quad N(C) = 10 \quad N(A \cap B \cap C) = 0 = \delta$

$N(A \cup B \cup C) = \underline{22} = a+b+c+\alpha+\beta+\gamma$

$\Rightarrow \quad 22 = 20+14+10 - N(A \cap B) - N(A \cap C) - N(B \cap C) + 0 \quad \Rightarrow \quad \underline{\alpha+\beta+\gamma = 22}$

"$a = b = c = 0$" $\quad \beta+\gamma = 20$, $\alpha+\gamma = 14$, $\alpha+\beta = 10$ $\Rightarrow \quad \alpha = 2, \beta = 8, \gamma = 12$ ✓