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LISTA 7

$$\textcircled{1} \quad |C| = 17\% \quad |CNA| = 8\% \\ |A| = 22\%$$

$$\begin{aligned} * |AUC| &= |C| + |A| - |CNA| \\ &= 17\% + 22\% - 8\% = 31\% \end{aligned}$$

$$* \overline{|AUC|} = 100 - 31 = 69\% //$$

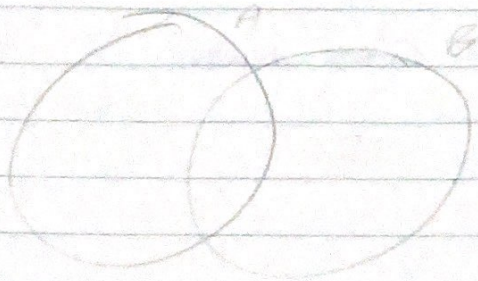
$$\textcircled{2} \quad |I| = 4000 \quad |IUS| = 3500 \\ |S| = 2800$$

$$* |IUS| = 10000 - 3500 = 6500$$

$$\begin{aligned} * |IUS| &= |I| + |S| - |INS| \\ 6500 &= 4000 + 2800 - |INS| \\ |INS| &= 300 \end{aligned}$$

$$* |I| - 300 = 3700 //$$

3



$$|B| = 260$$

$$|A \cap B| = 90$$

$$|A| = 210$$

ALUMNOS UNA SÓLO CUESTA

* CUESTA 1

$$|A| - |A \cap B| = |A| - 90$$

* CUESTA 2

$$|B| - |A \cap B| = 260 - 90 = 170$$

$$470 = |A| - 90 + 170$$

$$|A| = 390$$

$$\begin{aligned} * |A \cup B| &= |A| + |B| - |A \cap B| \\ &= 390 + 260 - 90 \\ &= 560 \end{aligned}$$

* ALUMNOS NO HUBO

$$210 - 170 = 40$$

$$\text{Total ALUMNOS} = 560 + 40 = 600 //$$

4

$$\begin{aligned} |EUNUH| &= |E| + |N| + |H| - |ENH| - |EHU| - |NHN| + |NNEH| \\ &= 400 + 1200 + 1000 - 220 - 180 - 800 + 100 \\ &= 2700 - 1200 + 100 \\ &= 1600 \end{aligned}$$

$$n: 1800 - 1600 = 200 //$$

5

$$\begin{aligned} |ANB| &= 100 \\ |BNC| &= 80 \\ |ANC| &= 20 \end{aligned}$$

$$A: 100 + 20 = 120 \text{ votes}$$

$$B: 100 + 80 = 180 \text{ votes}$$

$$C: 80 + 20 = 100 \text{ votes}$$

E //

6

$$U = 450$$

$$|A| = 230$$

$$\text{OUTGOES: } 50$$

$$|B| = 250$$

$$a) U = |A| - |ANB| + |B| - |ABN| + |ABN| + 50$$

$$450 = 230 + 250 - |ANB|$$

$$|ANB| = 80 //$$

$$a) |A| - |A \cap B| = 230 - 80 = 150 //$$

$$c) |B| - |A \cap B| = 250 - 80 = 170 //$$

$$d) 170 + 50 = 120 //$$

⑦

$$\begin{aligned} |A \cup B \cup C| &= |A| + |B| + |C| - |A \cap B| - |A \cap C| - |B \cap C| + |A \cap B \cap C| \\ &= 105 + 200 + 160 - 25 - 40 - 25 + 5 \\ &= 380 \end{aligned}$$

$$\text{Total } 380 + 120 = 500 \text{ persons} //$$

⑧

$$U = 100$$

$$|M| = 47$$

$$|M \cap P| = 7$$

$$|M \cap F \cap P| = 2$$

$$|F| = 32$$

$$|M \cap P| = 5$$

$$|P| = 21$$

$$|F \cap P| = 6$$

$$\begin{aligned} |A \cup B \cup P| &= 47 + 32 + 21 - 7 - 5 - 6 + 2 \\ &= 84 \end{aligned}$$

$$\therefore 100 - 84 = 16 \text{ persons} //$$