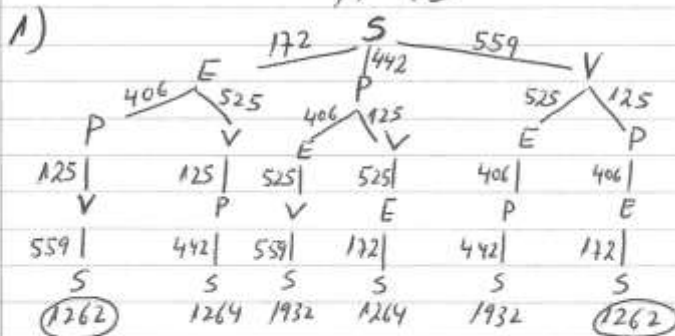


6º TESTE
11º43



Mínimo: SEPVS e SVPGS (contrários) - 1262

$$1262 \times 3 \times 0,972 \approx \underline{\underline{3680 \text{ €}}}$$

$$\text{Nota: } 100\% - 2,8\% = 97,2\% \\ = 0,972$$

2)

	€ Petr.	Outros	
SELETIVA	9600	10400	20000
FLOR.	25600	54400	80000
DOM.	8100	36900	45000
	43300	101700	145000

2.1) $\frac{33700}{43300} = 0,778$
 $(33700 = 25600 + 8100)$

2.2) $\frac{8100}{145000} = 0,05586 \dots$ 2.3) $\frac{33700}{125000} = 0,2696$

3.1) $\hat{p} = \frac{12}{500} = 0,024$

$$\left[0,024 - 2,576 \cdot \sqrt{\frac{0,024 \times 0,976}{500}} ; 0,024 + 2,576 \cdot \sqrt{\frac{0,024 \times 0,976}{500}} \right] = \\ =] 0,006 ; 0,042 [$$

3.2) $1,645 \cdot \sqrt{\frac{0,024 \times 0,976}{m}} = 0,008 \Leftrightarrow \frac{0,024 \times 0,976}{m} = \frac{0,008^2}{1,645^2}$

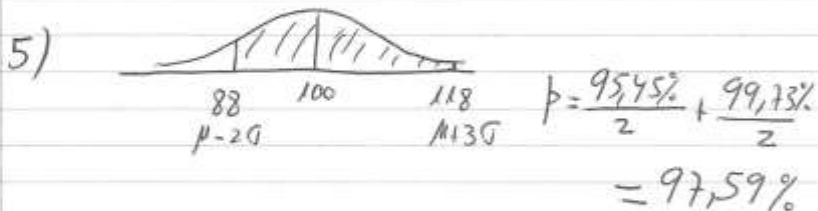
$$\Leftrightarrow m \times 0,08^2 = 0,024 \times 0,976 \times 1,645^2 \Leftrightarrow$$

$$m = \frac{0,024 \times 0,976 \times 1,645^2}{0,008^2} \Leftrightarrow m = 990,405$$

\therefore A partir de $m = 991$

$$4) N = 120 + 10 \cdot \log_{10} I, \quad 148 = 120 + 10 \cdot \log_{10} I$$

$$\Leftrightarrow 10 \log_{10} I = 28 \Leftrightarrow \log_{10} I = 2,8 \Leftrightarrow I = 10^{2,8} \Leftrightarrow I = 630,957$$



6) A: 30 min \rightarrow 720 l (24 l/min)

45 min $45 \times 24 = 1080$ 450

B: 300 min. \rightarrow 2250 l

$$7,5 \text{ l/min.} \quad \left(\frac{2250}{300} = 7,5 \right)$$

$$\begin{array}{r} 450 \\ 720 \\ \hline 1080 \\ 2250 \text{ l} \end{array}$$

com as duas TORNEIRAS: $24 - 7,5 = 16,5 \text{ l/min.}$

6.1.1) $5 \times 16,5 = 82,5 \text{ l}$ 6.1.2) $30 \times 16,5 = 495$

6.1.3) $60 \times 16,5 = 990 \text{ l}$

6.2) 2250 litros.

6.3) $\frac{2250}{16,5} = 136,36$ minutos.

6.4) $\frac{2250}{24} = 93,75 = 93$ minutos e 45 seg.

$0,75 \times 60 = 45$.