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Permutações

$$01. P_8 - P_1 \cdot P_2 = 8! - 7! \cdot 2! = 40320 - 10080 = 30240$$

$$02. 1 \cdot 5 \cdot 5! = 600 (D)$$

$$03. P_5 = 5! = 120 (A)$$

$$04. \frac{7!}{(MACKENZIE)} = 5040 (C)$$

$$05. \text{Vogais: O, E} \quad 2 \cdot 5! = 240 (B)$$

Consoantes: L, N, D, R, S

$$06. P_4 \cdot P_2 = 4! \cdot 2! = 48 (B)$$

$$07. \frac{4 \cdot 3 \cdot 5!}{2!} = 720 (B)$$

$$08. P_5 - P_4 \cdot P_2 = 5! - 4! \cdot 2! = 72 (B)$$

$$09. \begin{array}{|c|c|c|} \hline 6 & 5 & 4 \\ \hline 9 & 2 & 1 \\ \hline 3 & 2 & 1 \\ \hline \end{array} \quad \frac{(9 \cdot 2 \cdot 1) \cdot 6!}{3! \cdot 3! \cdot 3!} = 60 (E)$$