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1- $\underline{2} \underline{7} \underline{6} \underline{5} \underline{4} \underline{3} \underline{2} \underline{1}$

$$P_8 - P_2 \cdot P_7 = 8! - (2!)(7!) = 40320 - 1080 = 30.240$$

2- $\underline{1} \underline{5} \underline{5} \underline{4} \underline{3} \underline{2} \underline{1} = 5 \cdot (5!) = 5 \cdot 120$
 $= 600 \text{ (D)}$

3- $P_5 = 5! = 120 \text{ (A)}$

4- $\underline{1} \underline{7} \underline{6} \underline{5} \underline{4} \underline{3} \underline{2} \underline{1} \underline{1} = P_7 = 7! = 5.040 \text{ (C)}$

5- $\underline{2} \underline{5} \underline{4} \underline{3} \underline{2} \underline{1} \underline{1} = 2 \cdot (5!) = 2 \cdot 120 = 240 \text{ (B)}$
(O ou E)

$$6 - \underline{2} \underline{1} \underline{4} \underline{3} \underline{2} = 2 \cdot (4!) = 2 \cdot 24 = 48 (B)$$

$$7 - \underline{4} \underline{5} \underline{4} \underline{3} \underline{2} \underline{1} \underline{3} \quad \# \text{ E se repete}$$

$$4 \cdot 3 \cdot P_5^2 = 12 \cdot \frac{P_5}{P_2} = 12 \cdot \frac{5!}{2!} = 12 \cdot 5 \cdot 4 \cdot 3 = 12 \cdot 60 = 720 (B)$$

$$8 - P_5 - P_4 \cdot P_2 = 120 - 24 \cdot 2 = 120 - 48 = 72 (B)$$

9 -

$$3 \cdot P_6^{3,3} = 3 \cdot \frac{6!}{3!3!} = 3 \cdot \frac{6 \cdot 5 \cdot 4}{3 \cdot 2} = 3 \cdot 2 \cdot 5 \cdot 2 = 6 \cdot 10 = 60 (E)$$

cores

no meio