

Lista de exercícios

1.  $P_8 = 8! = 40320$

2.  $P_7 = 7! = 5040$

3.  $P_2 = 2! = 2$

2.  $5040 \div 10080 = 30240$

$40320 - 10080 = 30240$

2.  $\underline{5} \cdot \underline{5} \cdot \underline{4} \cdot \underline{3} \cdot \underline{2} \cdot \underline{1}$

$\underline{1} \cdot \underline{1} \cdot \underline{2} \cdot \underline{3} \cdot \underline{4} \cdot \underline{5} \cdot P_5 = 600$  alternativa (D), //

3. MORAL

$\underline{5} \cdot \underline{4} \cdot \underline{3} \cdot \underline{2} \cdot \underline{1} = P_5 = 5! = 120$  alternativa (A), //

4. MACKENZIE

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

1.  $P_7 = 7! = 5040$  alternativa (C), //

5. LONDRES

$\underline{2} \underline{5} \underline{4} \underline{3} \underline{2} \underline{1} \underline{1} = 2 \cdot P_5 = 120$

0, E alternativa (B), //

6.  $P_4 = 4! = 24$

2.  $P_4 = 48$  alternativa (B), //

7. ERNESTO

4       3

4.  $\left(\frac{5!}{2!}\right) \cdot 3 = 4 \cdot \left(\frac{5 \cdot 4 \cdot 3 \cdot 2 \cdot 1}{2 \cdot 1}\right) \cdot 3 = 4 \cdot 60 \cdot 3 = 720$  alternativa (B), //

8.  $\underline{5} \cdot \underline{4} \cdot \underline{3} \cdot \underline{2} \cdot \underline{1} = P_5 = 5! = 120$

2.  $\underline{2} \cdot \underline{4} \cdot \underline{3} \cdot \underline{2} \cdot \underline{1} = 2 \cdot P_4 = 48$

$120 - 48 = 72$  alternativa (B), //

9.  $P_6^{\frac{3,3}{3! \cdot 3!}} = \frac{6!}{3! \cdot 3!} = 20 \quad 3 \cdot 20 = 60$

alternativa (E), //