

1-

$P_8 - P_7 \cdot P_2$

$$8! - 7! \cdot 2! = 40320 - 10080 = 30240$$

2-

$P_6 - 1 \cdot 5 \cdot 4 \cdot 3 \cdot 2 \cdot 1$

$6! - 120$

$720 - 120$

600 \rightarrow Alternativa D

3-

$$3 - 5 \cdot 4 \cdot 3 \cdot 2 \cdot 1 = 120 \rightarrow \text{Alternativa A}$$

4-

E 7, 6, 5, 4, 3, 2, 1, E

$\hookrightarrow 5040$ Alternativa C

5- 2, 5, 4, 3, 2, 1, 1

$\hookrightarrow 240$ Alternativa B

$$6- P_2 \cdot P_4 = 2! \cdot 4! = 48 \text{ Alternativa B}$$

7.

$$\frac{4 \cdot 5 \cdot 4 \cdot 3 \cdot 2 \cdot 1 \cdot 3}{2!} = \frac{1440}{2} = 720$$

Alternativa B

$$8. P_5 = 5!$$

$$5! = P_4 \times P_2$$

$$5! = 4! \cdot 2! = 120 - 48 = 72 \text{ Alternativa B}$$