

Tarefa básica

① $P_5 = 5! = 5 \cdot 4 \cdot 3 \cdot 2 \cdot 1 = 120$

$A_{4,3} = \frac{4!}{(4-3)!} = \frac{4 \cdot 3 \cdot 2 \cdot 1}{1} = 24$

$C_{4,2} = \frac{4!}{2!(4-2)!} = \frac{4 \cdot 3 \cdot 2 \cdot 1}{2 \cdot 2 \cdot 1} = 6$

$\frac{P_5 - A_{4,3}}{C_{4,2}} = \frac{120 - 24}{6} = 16$

② $C_{8,6} = \frac{8!}{6!(8-6)!} = \frac{8 \cdot 7 \cdot 6 \cdot 5 \cdot 4 \cdot 3 \cdot 2 \cdot 1}{6! \cdot 2!} = 28$

③ 10 pessoas: 4 br, 6 ita
3 br, 2 ita

$\frac{4!}{3!2!} \cdot \frac{6!}{2!4!} = 1 \cdot 1 = 1$ } $4 \cdot 1 \cdot 1 \cdot 3 \cdot 5 = 60$

④ $\{0, 1, 2, 3, 4\}$

$C_{5,3} = \frac{5!}{3!2!} = \frac{5 \cdot 4 \cdot 3 \cdot 2 \cdot 1}{3 \cdot 2 \cdot 1} = 10$

⑤ $\frac{16!}{12!4!} \cdot \frac{14!}{10!4!} = 3 \cdot 5 \cdot 2 \cdot 3 = 90$

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 $C_{6,2}$

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 $C_{4,2}$

Letra c