Tarefa Básica

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

$A_{4,3} \rightarrow \dfrac{4!}{4-3!} = 4.3.2 = 24$

$C_{4,2} \rightarrow \dfrac{4!}{2(4-2)!} = \dfrac{4.3.2!}{2!.2!} = 6$

02 - $C_{8,6} \rightarrow \dfrac{8!}{6!(8-6)!} \rightarrow \dfrac{8.7.6!}{6!2!} = 28$

03 - $C_{4,3} \cdot C_{6,2}$

$C_{4,3} \rightarrow \dfrac{4!}{3!(4-3)!} = 4$

$C_{6,2} \rightarrow \dfrac{6!}{2!(6-2)!} = 15$

$15.4 = 60$

04 - $\dfrac{5!}{3!(5-3)!} \rightarrow \dfrac{120}{12} = 10$

05 - $C_{6,2} \rightarrow \dfrac{6!}{2!4!} \rightarrow \dfrac{720}{48} = 15$

$C_{4,2} \rightarrow \dfrac{4!}{2!2!} \rightarrow \dfrac{24}{4} = 6$

$P = 15.6 = 90$

(c)

06 - $C_{4,3} \rightarrow \dfrac{4!}{3!(4-3)!} = 4.4.4 = 64$ (E)

07 - $C_{5,4} \rightarrow \dfrac{5!}{4!(5-4)!} \rightarrow \dfrac{120}{24} = 5.2 = 10.4 = 40$

$40 + 4 + 2 + 1 = 47$ (E)

08 - $C_{6,2} \rightarrow \dfrac{6!}{2!4!} \rightarrow \dfrac{720}{48} = 15$

$15 \cdot 6 = 90$

$C_{4,2} \rightarrow \dfrac{4!}{2!2!} \rightarrow \dfrac{24}{4} = 6$

(D)

09 - $1° \quad C_{10,1} \rightarrow \dfrac{10!}{1!10!} = 10$

$2° \quad C_{10,2} \rightarrow \dfrac{10!}{2!8!} \rightarrow \dfrac{10 \cdot 9}{2} = 45$

$3° \quad C_{10,3} \rightarrow \dfrac{10!}{3!7!} \rightarrow \dfrac{10 \cdot 9 \cdot 8}{3 \cdot 2 \cdot 1} = 120$

$10 + 45 + 120 = 175 \cdot 3 = 525$ (A)