1-

$P_5 - A_{4,3}$

$C_{4,2}$

$$\left(\frac{5! - 4!}{(4-3)!}\right) \div \frac{4!}{(4-2)!\,2!} = (120 - 24) \cdot \frac{1}{6}$$

$$\frac{96}{6} = 16$$

2- $\frac{8}{2}\ \frac{7}{1} \rightarrow \frac{56}{2} = 28$ modos.

3- $C_{4,3} \cdot C_{6,2} \rightarrow \frac{4}{1} \cdot \frac{3 \cdot 5}{1} = 15 \cdot 4 = 60$

4- $C_{5,3} \rightarrow \frac{5}{3}\ \frac{4^2}{2}\ \frac{3}{1} = 5 \cdot 2 = 10$

5- $C_{6,2} \cdot C_{4,2} = \frac{6^3}{2}\ \frac{5}{1} \cdot \frac{4^2}{2}\ \frac{3}{1} = 15 \cdot 6 = 90$

... Alternativa C

6- $C_{4,3} \cdot C_{4,3} \cdot C_{4,3} = 4 \cdot 4 \cdot 4 = 64$

7- $C_{5,2} = \frac{5}{2}\ \frac{4^2}{1} = 10 \cdot 4 = 40$ jogos.

$40 + 4 + 2 + 1 = 47 \rightarrow$ Alternativa C.

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8- A: $C_{6,2} = \frac{6^3}{2} \frac{5}{1} = 15$

B: $C_{4,2} = \frac{4^2}{2} \frac{3}{1} = 6$

C: $C_{2,2} = \frac{2}{2} \frac{1}{1} = 1$

$15 . 6 . 1 = 90$ → Alternativa D

9- Pão: $C_{3,1} = \frac{3}{1} = 3$

Recheio. $3 . (10 + 5 . 9 + 5 . 3 . 8) = 3 . 175 = 525$

Alternativa A.