



Ejercicio ①

$$n = 10$$

$$k = 4$$

$$\frac{n!}{(n-k)!} = \frac{10!}{(10-4)!} = \frac{3628800}{720} = \boxed{5040} \quad |R| =$$

Ejercicio ②

$$n = 3$$

$$k = 1$$

$$\frac{n!}{(n-k)!} = \frac{3!}{(3-1)!} = \frac{6}{2} = \boxed{3} \quad |R| =$$

Ejercicio ③

$$k = 1$$

$$n = 6 + 4 + 5 = 15$$

$$\frac{n!}{(n-k)!} = \frac{15!}{(15-1)!} = \frac{15!}{14!} = \boxed{15} \quad |R| =$$



Ejercicio ④

$$\frac{n!}{(n-k)!}$$

$$n = 20$$

$$k = 2$$

$$\frac{20!}{(20-2)!} = \frac{20!}{18!} = \boxed{380} \quad |R| =$$

ejercicio ⑤

$$X = 3 \cdot 2 \cdot 5 = \boxed{30} \quad |R| =$$

ejercicio ⑥

$$Y = 4 \cdot 6 \cdot 5 = \boxed{120} \quad |R| =$$