

Ejercicio 1

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

$$n = 10$$

$$k = 4$$

$$\frac{10!}{(10-4)!} = \frac{10!}{6!} = 5040$$

Ejercicio 2

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

$$n = 3$$

$$k = 1$$

$$\frac{3!}{(3-1)!} = \frac{3!}{2!} = 3$$

Ejercicio 3

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

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

$$k = 1$$

$$\frac{15!}{(15-1)!} = \frac{15!}{14!} = 15$$

#### Ejercicio 4

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

$$n = 20$$

$$k = 2$$

$$\frac{20!}{(20-2)!} = \frac{20!}{18!} = 380$$

#### Ejercicio 5

$$n = 3 \times 2 \times 5$$

$$n = 30$$

#### Ejercicio 6

$$n = 5 \times 6 \times 4$$

$$n = 120$$