

Factorials

A new math operation

$$n! = n \times (n-1) \times (n-2) \times (n-3) \times \cdots \times (3) \times (2) \times (1)$$

$$4! = 4 \times 3 \times 2 \times 1 = 24$$

$$6! = 6 \times 5 \times 4 \times 3 \times 2 \times 1 = 720$$

define $0! = 1$.