

For all $n \geq 0$, the **factorial symbol** $n!$ is defined as

$$0! = 1 \quad 1! = 1$$

$$n! = n(n-1)(n-2)\cdots 3 \cdot 2 \cdot 1 \quad \text{for } n \geq 2$$

$$5!$$

$$7!$$

$$9!$$

n	0	1	2	3	4	5	6
$n!$							

Evaluate the following **factorial** expressions

$$\frac{7!}{5!}$$

$$\frac{3!}{6!}$$

$$\frac{7!}{5!}$$

$$\frac{12!}{10!}$$

Evaluate the following **factorial** expressions

$$\frac{3! \cdot 7!}{4!}$$

$$\frac{4! \cdot 6!}{8!}$$

Evaluate the following **factorial** expressions

$$\frac{2! \cdot 8!}{5!}$$

$$\frac{9!}{3! \cdot 8!}$$