

Corrigé exercice 17 :

On sait que $3! = 3 \times 2 \times 1 = 6$ et $2! = 2 \times 1 = 2$. Ainsi, $M = 3! \times 2! = 6 \times 2 = 12$

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

$$P = 3! + 2! = 6 + 2 = 8$$

$$Q = (3 + 2)! = 5! = 5 \times 4 \times 3 \times 2 \times 1 = 120$$

Corrigé exercice 18 :

$$R = \frac{5!}{4!} = \frac{5 \times 4 \times 3 \times 2 \times 1}{4 \times 3 \times 2 \times 1} = \frac{5 \times 4!}{4!} = 5$$

$$S = \frac{8!}{10!} = \frac{8!}{8! \times 9 \times 10} = \frac{1}{90}$$

$$T = \frac{6!}{3!} = \frac{6 \times 5 \times 4 \times 3!}{3!} = 120$$

$$U = \frac{101!}{99!} = \frac{101 \times 100 \times 99!}{99!} = 10100$$