

# NOMBRES - Curiosités, théorie et usages

## PRODUIT de NOMBRES

### en progression arithmétique

[Retour Page Principale](#)

[Tables](#) – [Index](#)

**Table des produits pour {d, r} de 1 à 10 et n de 1 à 10**

$$P_{r,d}(n) = \prod_{k=0}^{n-1} (d + k \cdot r)$$

**Exemple première ligne 1, 1:** ce sont les factorielles de n. Ex: 10! = 3 628 800

**Ligne suivante 1, 2:** 2 x 3 = 6, 2 x 3 x 4 = 24, ...

**Ligne 2,7 :** 7x(7+2) = 63, 7x(7+2)x(7+4) = 693, ...

**r, d, P<sub>d,r</sub>(n)**

1, 1, [1, 2, 6, 24, 120, 720, 5040, 40320, 362880, 3628800]  
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