L'équation de **la distributivité** :

$$a × (b + c) = a × b + a × c$$
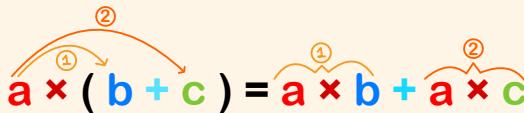
Exemples :

23 × (20 + 1) = 23 × 20 + 1 × 20 = 460 + 20 = 280

32 × 101 = 32 × (100 + 1) = 3 200 + 32 = 3 232

30 × 9 = 30 × (10 − 1)   13 × 103   = 13 × (100 + 3)
         = 30 × 10 − 30 × 1   = 13 × 100 + 13 × 3
         = 300 − 30 = 270   = 1300 + 39 = 1339

Exemples (sens inverse) :

45 × 3 + 45 × 7 = 45 × (3 + 7) = 45 × 10 = 450

867 × 373 + 867 × 627 = 867 × 1 000 = 867 000

47 × 13 - 47 × 3 = 47 × (13 - 3) = 47 × 10 = 470