

## بعض أشكال عملية الضرب

$$1. (a+b)^2 = a^2 + 2ab + b^2$$

مثال

$$(2C+S)^2 = (2C)^2 + 2(2C)(S) + (S)^2 \\ = 4C^2 + 4CS + S^2$$

$$(L+4N)^2 = (L)^2 + 2(L)(4N) + (4N)^2 \\ = L^2 + 8LN + 16N^2$$

$$(4W+2J)^2 = (4W)^2 + 2(4W)(2J) + (2J)^2 \\ = 16W^2 + 16JW + 4J^2$$

$$2. (a-b)^2 = a^2 - 2ab + b^2$$

مثال

$$(K-4P)^2 = (K)^2 - 2(K)(4P) + (4P)^2 \\ = K^2 - 8KP + 16P^2$$

$$(5j-q)^2 = (5j)^2 - 2(5j)(q) + (q)^2 \\ = 25j^2 - 10jq + q^2$$

$$(3v-2k)^2 = (3v)^2 - 2(3v)(2k) + (2k)^2 \\ = 9v^2 - 12kv + 4k^2$$

$$3. (a+b)(a-b) = a^2 - b^2$$

مثال

$$(3x+2q)(3x-2q) = (3x)^2 - (2q)^2 \\ = 9x^2 - 4q^2$$

$$(2D+X)(2D-X) = (2D)^2 - (X)^2 \\ = 4D^2 - X^2$$

$$(J+4K)(J-4K) = (J)^2 - (4K)^2 \\ = J^2 - 16K^2$$