

## بعض أشكال عملية الضرب

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

مثال

$$(5C+G)^2 = (5C)^2 + 2(5C)(G) + (G)^2 \\ = 25C^2 + 10CG + G^2$$

$$(4H+5Q)^2 = (4H)^2 + 2(4H)(5Q) + (5Q)^2 \\ = 16H^2 + 40HQ + 25Q^2$$

$$(r+3o)^2 = (r)^2 + 2(r)(3o) + (3o)^2 \\ = r^2 + 6or + 9o^2$$

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

مثال

$$(2f-5m)^2 = (2f)^2 - 2(2f)(5m) + (5m)^2 \\ = 4f^2 - 20fm + 25m^2$$

$$(3x-4c)^2 = (3x)^2 - 2(3x)(4c) + (4c)^2 \\ = 9x^2 - 24cx + 16c^2$$

$$(y-5x)^2 = (y)^2 - 2(y)(5x) + (5x)^2 \\ = y^2 - 10xy + 25x^2$$

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

مثال

$$(4N+5J)(4N-5J) = (4N)^2 - (5J)^2 \\ = 16N^2 - 25J^2$$

$$(c+4x)(c-4x) = (c)^2 - (4x)^2 \\ = c^2 - 16x^2$$

$$(3y+4p)(3y-4p) = (3y)^2 - (4p)^2 \\ = 9y^2 - 16p^2$$