

## بعض أشكال عملية الضرب

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

مثال

$$(5Q + 3F)^2 = (5Q)^2 + 2(5Q)(3F) + (3F)^2 \\ = 25Q^2 + 30FQ + 9F^2$$

$$(2n + 4o)^2 = (2n)^2 + 2(2n)(4o) + (4o)^2 \\ = 4n^2 + 16no + 16o^2$$

$$(5f + 4n)^2 = (5f)^2 + 2(5f)(4n) + (4n)^2 \\ = 25f^2 + 40fn + 16n^2$$

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

مثال

$$(3f - 4t)^2 = (3f)^2 - 2(3f)(4t) + (4t)^2 \\ = 9f^2 - 24ft + 16t^2$$

$$(3u - 2s)^2 = (3u)^2 - 2(3u)(2s) + (2s)^2 \\ = 9u^2 - 12su + 4s^2$$

$$(3Z - 5T)^2 = (3Z)^2 - 2(3Z)(5T) + (5T)^2 \\ = 9Z^2 - 30TZ + 25T^2$$

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

مثال

$$(U + 3H)(U - 3H) = (U)^2 - (3H)^2 \\ = U^2 - 9H^2$$

$$(4Q + C)(4Q - C) = (4Q)^2 - (C)^2 \\ = 16Q^2 - C^2$$

$$(3U + 4K)(3U - 4K) = (3U)^2 - (4K)^2 \\ = 9U^2 - 16K^2$$