

## بعض أشكال عملية الضرب

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

مثال

$$(K+5H)^2 = (K)^2 + 2(K)(5H) + (5H)^2 \\ = K^2 + 10HK + 25H^2$$

$$(t+2f)^2 = (t)^2 + 2(t)(2f) + (2f)^2 \\ = t^2 + 4ft + 4f^2$$

$$(P+3N)^2 = (P)^2 + 2(P)(3N) + (3N)^2 \\ = P^2 + 6NP + 9N^2$$

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

مثال

$$(S-2D)^2 = (S)^2 - 2(S)(2D) + (2D)^2 \\ = S^2 - 4DS + 4D^2$$

$$(S-2P)^2 = (S)^2 - 2(S)(2P) + (2P)^2 \\ = S^2 - 4PS + 4P^2$$

$$(2U-5P)^2 = (2U)^2 - 2(2U)(5P) + (5P)^2 \\ = 4U^2 - 20PU + 25P^2$$

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

مثال

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

$$(2t+5y)(2t-5y) = (2t)^2 - (5y)^2 \\ = 4t^2 - 25y^2$$

$$(4Y+5S)(4Y-5S) = (4Y)^2 - (5S)^2 \\ = 16Y^2 - 25S^2$$