

## بعض أشكال عملية الضرب

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

مثال

$$(3L + 2H)^2 = (3L)^2 + 2(3L)(2H) + (2H)^2 \\ = 9L^2 + 12HL + 4H^2$$

$$(5P + 2Z)^2 = (5P)^2 + 2(5P)(2Z) + (2Z)^2 \\ = 25P^2 + 20PZ + 4Z^2$$

$$(40 + 3F)^2 = (40)^2 + 2(40)(3F) + (3F)^2 \\ = 160^2 + 24F0 + 9F^2$$

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

مثال

$$(5G - 2K)^2 = (5G)^2 - 2(5G)(2K) + (2K)^2 \\ = 25G^2 - 20GK + 4K^2$$

$$(4I - 3Y)^2 = (4I)^2 - 2(4I)(3Y) + (3Y)^2 \\ = 16I^2 - 24IY + 9Y^2$$

$$(T - 5H)^2 = (T)^2 - 2(T)(5H) + (5H)^2 \\ = T^2 - 10HT + 25H^2$$

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

مثال

$$(5I + 3V)(5I - 3V) = (5I)^2 - (3V)^2 \\ = 25I^2 - 9V^2$$

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

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