

بعض أشكال عملية الضرب

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

مثال

$$(3L + 2S)^2 = (3L)^2 + 2(3L)(2S) + (2S)^2 \\ = 9L^2 + 12LS + 4S^2$$

$$(5M + Z)^2 = (5M)^2 + 2(5M)(Z) + (Z)^2 \\ = 25M^2 + 10MZ + Z^2$$

$$(Z + 5J)^2 = (Z)^2 + 2(Z)(5J) + (5J)^2 \\ = Z^2 + 10JZ + 25J^2$$

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

مثال

$$(2J - 5H)^2 = (2J)^2 - 2(2J)(5H) + (5H)^2 \\ = 4J^2 - 20HJ + 25H^2$$

$$(a - 4d)^2 = (a)^2 - 2(a)(4d) + (4d)^2 \\ = a^2 - 8ad + 16d^2$$

$$(4Y - 5U)^2 = (4Y)^2 - 2(4Y)(5U) + (5U)^2 \\ = 16Y^2 - 40UY + 25U^2$$

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

مثال

$$(5C + V)(5C - V) = (5C)^2 - (V)^2 \\ = 25C^2 - V^2$$

$$(4H + 2F)(4H - 2F) = (4H)^2 - (2F)^2 \\ = 16H^2 - 4F^2$$

$$(3o + p)(3o - p) = (3o)^2 - (p)^2 \\ = 9o^2 - p^2$$