

## بعض أشكال عملية الضرب

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

مثال

$$(3Y+L)^2 = (3Y)^2 + 2(3Y)(L) + (L)^2 \\ = 9Y^2 + 6LY + L^2$$

$$(4a+5s)^2 = (4a)^2 + 2(4a)(5s) + (5s)^2 \\ = 16a^2 + 40as + 25s^2$$

$$(4W+2C)^2 = (4W)^2 + 2(4W)(2C) + (2C)^2 \\ = 16W^2 + 16CW + 4C^2$$

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

مثال

$$(M-5B)^2 = (M)^2 - 2(M)(5B) + (5B)^2 \\ = M^2 - 10BM + 25B^2$$

$$(5E-2B)^2 = (5E)^2 - 2(5E)(2B) + (2B)^2 \\ = 25E^2 - 20BE + 4B^2$$

$$(G-5L)^2 = (G)^2 - 2(G)(5L) + (5L)^2 \\ = G^2 - 10GL + 25L^2$$

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

مثال

$$(r+4y)(r-4y) = (r)^2 - (4y)^2 \\ = r^2 - 16y^2$$

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

$$(5r+3h)(5r-3h) = (5r)^2 - (3h)^2 \\ = 25r^2 - 9h^2$$