بعض أشكال عملية الضرب

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

مثال

$(M+2\,0)^2 = (M)^2+2\,(M)\,(2\,0)+(2\,0)^2$
$=M^2+4\,M\,0+4\,0^2$

$(2\,Z+4\,F)^2 = (2\,Z)^2+2\,(2\,Z)\,(4\,F)+(4\,F)^2$
$=4\,Z^2+16\,F\,Z+16\,F^2$

$(3\,e+5\,t)^2 = (3\,e)^2+2\,(3\,e)\,(5\,t)+(5\,t)^2$
$=9\,e^2+30\,e\,t+25\,t^2$

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

مثال

$(4\,A-S)^2 = (4\,A)^2 -2\,(4\,A)\,(S)+(S)^2$
$=16\,A^2-8\,A\,S+S^2$

$(3\,A-5\,Q)^2 = (3\,A)^2 -2\,(3\,A)\,(5\,Q)+(5\,Q)^2$
$=9\,A^2-30\,A\,Q+25\,Q^2$

$(3\,j-2\,g)^2 = (3\,j)^2 -2\,(3\,j)\,(2\,g)+(2\,g)^2$
$=9\,j^2-12\,g\,j+4\,g^2$

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

مثال

$(3\,b+5\,u)\,(3\,b-5\,u) = (3\,b)^2 - (5\,u)^2$
$=9\,b^2-25\,u^2$

$(4\,M+3\,T)\,(4\,M-3\,T) = (4\,M)^2 - (3\,T)^2$
$=16\,M^2-9\,T^2$

$(5\,t+4\,c)\,(5\,t-4\,c) = (5\,t)^2 - (4\,c)^2$
$=25\,t^2-16\,c^2$