احسب بتمعن العبارات التالية.

$A_1 = -2 + 3^2 \times 2$

$A_2 = (-2)^2 + 7 + 7 \times (-2)$

$A_3 = (-1)^2 \times (-7 + 2 - 2)$

$A_4 = (2 + 1 + (-2)^2) \times (-1)$

$A_5 = (-3)^2 \times (-4 - 4)$

$A_6 = 1 \times ((-3)^2 + 1 \times (-3))$

$A_7 = 7^2 + 1 \times (-2)$

$A_8 = -1 + 2^2 \times 6$

$A_9 = 1^2 + 6 \times 6$

$A_{10} = (2 + 7 + (-1)^2) \times (-3)$

$A_{11} = (-3)^2 \times (7 + 6 - 2)$

$A_{12} = -4 \times ((-3)^2 + 3 \times (-3))$

$A_{13} = 4^2 + 5 + 7 \times (-5)$

$A_{14} = (-2)^2 \times (6 - 7)$

$A_{15} = (-3)^2 \times (-2 + 3 - 1)$

$A_{16} = (6 + 6 + (-3)^2) \times 3$

$A_{17} = 4^2 - 1 + 3 \times (-3)$

$A_{18} = (-3)^2 \times (1 + 2)$

$A_{19} = -2 \times ((-1)^2 + 1 \times (-1))$

$A_{20} = 7^2 + 1 \times (-5)$

$A_{21} = 1 + 3^2 \times 3$

$A_{22} = (-1)^2 \times (3 - 1)$

$A_{23} = (-1)^2 \times (-3 - 7 - 1)$

$A_{24} = 5^2 + 5 + 6 \times 7$

$A_{25} = (-3)^2 + (-5) \times 5$

$A_{26} = -5 \times ((-1)^2 + 3 \times (-1))$

$A_{27} = (-4 - 4 + (-1)^2) \times 6$

$A_{28} = 1 + 2^2 \times (-6)$

$A_{29} = -1 + 2^2 \times 2$

$A_{30} = 5 \times ((-3)^2 + 1 \times (-3))$

$A_{31} = (-1)^2 \times (7 + 5)$

$A_{32} = (7 + 5 + (-3)^2) \times 7$

$A_{33} = 4^2 + 4 + 6 \times 7$

$A_{34} = (-7)^2 + 5 \times (-2)$

$A_{35} = (-3)^2 \times (2 + 1 - 2)$

$A_{36} = 2 \times ((-1)^2 + 3 \times (-1))$

$A_{37} = -7 + 3^2 \times (-2)$

$A_{38} = (-1)^2 \times (-5 - 1 - 7)$

$A_{39} = 1^2 + (-5) \times (-5)$

$A_{40} = (-4)^2 - 3 + 5 \times 7$

$A_{41} = (-1)^2 \times (3 - 3)$

$A_{42} = (-5 + 1 + (-2)^2) \times 3$

$A_{43} = (-3)^2 + 1 \times (-3)$

$A_{44} = (-3)^2 \times (-1 - 5 - 2)$

$A_{45} = (-6)^2 + 2 + 4 \times (-2)$

$A_{46} = 4 + 2^2 \times (-7)$

$A_{47} = (-5 - 4 + (-3)^2) \times (-6)$

$A_{48} = (-3)^2 \times (1 + 2)$

$A_{49} = 1 \times ((-3)^2 + 2 \times (-3))$

$A_{50} = (-3)^2 \times (-4 + 6)$

الحلول

$A_1 = -2 + 3^2 \times 2$
$= -2 + 9 \times 2$
$= -2 + 18$
$A_1 = 16$

$A_2 = (-2)^2 + 7 + 7 \times (-2)$
$= 4 + 7 + 7 \times (-2)$
$= 4 + 7 - 14$
$A_2 = -3$

$A_3 = (-1)^2 \times (-7 + 2 - 2)$
$= 1 \times (-7 + 2 - 2)$
$= 1 \times (-7)$
$A_3 = -7$

$A_4 = (2 + 1 + (-2)^2) \times (-1)$
$= (2 + 1 + 4) \times (-1)$
$= 7 \times (-1)$
$A_4 = -7$

$A_5 = (-3)^2 \times (-4 - 4)$
$= 9 \times (-4 - 4)$
$= 9 \times (-8)$
$A_5 = -72$

$A_6 = 1 \times ((-3)^2 + 1 \times (-3))$
$= 1 \times (9 + 1 \times (-3))$
$= 1 \times (9 - 3)$
$= 1 \times 6$
$A_6 = 6$

$A_7 = 7^2 + 1 \times (-2)$
$= 49 + 1 \times (-2)$
$= 49 - 2$
$A_7 = 47$

$A_8 = -1 + 2^2 \times 6$
$= -1 + 4 \times 6$
$= -1 + 24$
$A_8 = 23$

$A_9 = 1^2 + 6 \times 6$
$= 1 + 6 \times 6$
$= 1 + 36$
$A_9 = 37$

$A_{10} = (2 + 7 + (-1)^2) \times (-3)$
$= (2 + 7 + 1) \times (-3)$
$= 10 \times (-3)$
$A_{10} = -30$

$A_{11} = (-3)^2 \times (7 + 6 - 2)$
$= 9 \times (7 + 6 - 2)$
$= 9 \times 11$
$A_{11} = 99$

$A_{12} = -4 \times ((-3)^2 + 3 \times (-3))$
$= -4 \times (9 + 3 \times (-3))$
$= -4 \times (9 - 9)$
$= -4 \times 0$
$A_{12} = 0$

$A_{13} = 4^2 + 5 + 7 \times (-5)$
$= 16 + 5 + 7 \times (-5)$
$= 16 + 5 - 35$
$A_{13} = -14$

$A_{14} = (-2)^2 \times (6 - 7)$
$= 4 \times (6 - 7)$
$= 4 \times (-1)$
$A_{14} = -4$

$A_{15} = (-3)^2 \times (-2 + 3 - 1)$
$= 9 \times (-2 + 3 - 1)$
$= 9 \times 0$
$A_{15} = 0$

$A_{16} = (6 + 6 + (-3)^2) \times 3$
$= (6 + 6 + 9) \times 3$
$= 21 \times 3$
$A_{16} = 63$

$A_{17} = 4^2 - 1 + 3 \times (-3)$
$= 16 - 1 + 3 \times (-3)$
$= 16 - 1 - 9$
$A_{17} = 6$

$A_{18} = (-3)^2 \times (1 + 2)$
$= 9 \times (1 + 2)$
$= 9 \times 3$
$A_{18} = 27$

$A_{19} = -2 \times ((-1)^2 + 1 \times (-1))$
$= -2 \times (1 + 1 \times (-1))$
$= -2 \times (1 - 1)$
$= -2 \times 0$
$A_{19} = 0$

$A_{20} = 7^2 + 1 \times (-5)$
$= 49 + 1 \times (-5)$
$= 49 - 5$
$A_{20} = 44$

$A_{21} = 1 + 3^2 \times 3$
$= 1 + 9 \times 3$
$= 1 + 27$
$A_{21} = 28$

$A_{22} = (-1)^2 \times (3 - 1)$
$= 1 \times (3 - 1)$
$= 1 \times 2$
$A_{22} = 2$

$A_{23} = (-1)^2 \times (-3 - 7 - 1)$
$= 1 \times (-3 - 7 - 1)$
$= 1 \times (-11)$
$A_{23} = -11$

$A_{24} = 5^2 + 5 + 6 \times 7$
$= 25 + 5 + 6 \times 7$
$= 25 + 5 + 42$
$A_{24} = 72$

$A_{25} = (-3)^2 + (-5) \times 5$
$= 9 + (-5) \times 5$
$= 9 - 25$
$A_{25} = -16$

$A_{26} = -5 \times ((-1)^2 + 3 \times (-1))$
$= -5 \times (1 + 3 \times (-1))$
$= -5 \times (1 - 3)$
$= -5 \times (-2)$
$A_{26} = 10$

$A_{27} = (-4 + (-4) + (-1)^2) \times 6$
$= (-4 - 4 + 1) \times 6$
$= -7 \times 6$
$A_{27} = -42$

$A_{28} = 1 + 2^2 \times (-6)$
$= 1 + 4 \times (-6)$
$= 1 - 24$
$A_{28} = -23$

$A_{29} = -1 + 2^2 \times 2$
$= -1 + 4 \times 2$
$= -1 + 8$
$A_{29} = 7$

$A_{30} = 5 \times ((-3)^2 + 1 \times (-3))$
$= 5 \times (9 + 1 \times (-3))$
$= 5 \times (9 - 3)$
$= 5 \times 6$
$A_{30} = 30$

$A_{31} = (-1)^2 \times (7 + 5)$
$= 1 \times (7 + 5)$
$= 1 \times 12$
$A_{31} = 12$

$A_{32} = (7 + 5 + (-3)^2) \times 7$
$= (7 + 5 + 9) \times 7$
$= 21 \times 7$
$A_{32} = 147$

$A_{33} = 4^2 + 4 + 6 \times 7$
$= 16 + 4 + 6 \times 7$
$= 16 + 4 + 42$
$A_{33} = 62$

$A_{34} = (-7)^2 + 5 \times (-2)$
$= 49 + 5 \times (-2)$
$= 49 - 10$
$A_{34} = 39$

$A_{35} = (-3)^2 \times (2 + 1 - 2)$
$= 9 \times (2 + 1 - 2)$
$= 9 \times 1$
$A_{35} = 9$

$A_{36} = 2 \times ((-1)^2 + 3 \times (-1))$
$= 2 \times (1 + 3 \times (-1))$
$= 2 \times (1 - 3)$
$= 2 \times (-2)$
$A_{36} = -4$

$A_{37} = -7 + 3^2 \times (-2)$
$= -7 + 9 \times (-2)$
$= -7 - 18$
$A_{37} = -25$

$A_{38} = (-1)^2 \times (-5 - 1 - 7)$
$= 1 \times (-5 - 1 - 7)$
$= 1 \times (-13)$
$A_{38} = -13$

$A_{39} = 1^2 + (-5) \times (-5)$
$= 1 + (-5) \times (-5)$
$= 1 + 25$
$A_{39} = 26$

$A_{40} = (-4)^2 - 3 + 5 \times 7$
$= 16 - 3 + 5 \times 7$
$= 16 - 3 + 35$
$A_{40} = 48$

$A_{41} = (-1)^2 \times (3 - 3)$
$= 1 \times (3 - 3)$
$= 1 \times 0$
$A_{41} = 0$

$A_{42} = (-5 + 1 + (-2)^2) \times 3$
$= (-5 + 1 + 4) \times 3$
$= 0 \times 3$
$A_{42} = 0$

$A_{43} = (-3)^2 + 1 \times (-3)$
$= 9 + 1 \times (-3)$
$= 9 - 3$
$A_{43} = 6$

$A_{44} = (-3)^2 \times (-1 - 5 - 2)$
$= 9 \times (-1 - 5 - 2)$
$= 9 \times (-8)$
$A_{44} = -72$

$A_{45} = (-6)^2 + 2 + 4 \times (-2)$
$= 36 + 2 + 4 \times (-2)$
$= 36 + 2 - 8$
$A_{45} = 30$

$A_{46} = 4 + 2^2 \times (-7)$
$= 4 + 4 \times (-7)$
$= 4 - 28$
$A_{46} = -24$

$A_{47} = (-5 + (-4) + (-3)^2) \times (-6)$
$= (-5 - 4 + 9) \times (-6)$
$= 0 \times (-6)$
$A_{47} = 0$

$A_{48} = (-3)^2 \times (1 + 2)$
$= 9 \times (1 + 2)$
$= 9 \times 3$
$A_{48} = 27$

$A_{49} = 1 \times ((-3)^2 + 2 \times (-3))$
$= 1 \times (9 + 2 \times (-3))$
$= 1 \times (9 - 6)$
$= 1 \times 3$
$A_{49} = 3$

$A_{50} = (-3)^2 \times (-4 + 6)$
$= 9 \times (-4 + 6)$
$= 9 \times 2$
$A_{50} = 18$