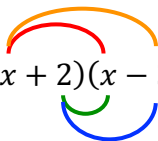


## ALGEBRA: Multiplying out brackets

(1)  $3(2x + 5) = 6x + 15$

(2)  $2x(x + 3) = 2x^2 + 6x$

(3)  $(x + 2)(x - 3)$



<b>First</b>	$x^2$
<b>Outer</b>	$-3x$
<b>Inner</b>	$2x$
<b>Last</b>	$-6$

$$x^2 - 3x + 2x - 6 = x^2 - x - 6$$

(4)  $4(3x + 2)$

(5)  $x(x + 4)$

(6)  $3x(x + 5)$

(7)  $4x(2x + 3)$

(8)  $2x(4 - 7x)$

(9)  $-3x(9 - 7x)$

(10)  $-7x(2x + 5)$

$$(11) \quad (x + 1)(x + 2)$$

$$(12) \quad (k + 3)(k + 7)$$

$$(13) \quad (d + 5)(d + 9)$$

$$(14) \quad (p + 8)(p + 6)$$

$$(15) \quad (w + 5)(w + 8)$$

$$(16) \quad (x + 1)(x - 2)$$

$$(17) \quad (k + 3)(k - 7)$$

$$(18) \quad (d - 5)(d + 9)$$

$$(19) \quad (p - 8)(p + 6)$$

$$(20) \quad (w - 5)(w + 8)$$

$$(21) \quad (x - 1)(x - 2)$$

$$(22) \quad (k - 3)(k - 7)$$

$$(23) \quad (d - 5)(d - 9)$$

$$(24) \quad (p - 8)(p - 6)$$

$$(25) \quad (w - 5)(w - 8)$$

$$(26) \quad (3x + 1)(x + 2)$$

$$(27) \quad (4y + 5)(y + 7)$$

$$(28) \quad (t + 4)(6t + 1)$$

$$(29) \quad (7u + 2)(u + 3)$$

$$(30) \quad (9v + 1)(v + 1)$$

$$(31) \quad (3x + 1)(x - 2)$$

$$(32) \quad (4y + 5)(y - 7)$$

$$(33) \quad (t - 4)(6t + 1)$$

$$(34) \quad (7u - 2)(u + 3)$$

$$(35) \quad (9v + 1)(v - 1)$$

$$(36) \quad (3x - 1)(x - 2)$$

$$(37) \quad (4y - 5)(y - 7)$$

$$(38) \quad (t - 4)(6t - 1)$$

$$(39) \quad (7u - 2)(u - 3)$$

$$(40) \quad (9v - 1)(v - 1)$$

$$(41) \quad (6x + 5)(2x - 7)$$

$$(42) \quad (5 - 3x)(2x + 1)$$

$$(43) \quad (5a - 4)(5 + 4a)$$

$$(44) \quad (7f + 2)(3f - 1)$$

$$(45) \quad 2(h + 1)(h + 2)$$

$$(46) \quad 5(2h - 1)(h - 3)$$

$$(47) \quad -3(h - 7)(2h + 1)$$

$$(48) \quad z(z + 1) + 6(z - 1)$$

$$(49) \quad 3m(1 + 2m) - 4(m + 7)$$

$$(50) \quad 2(x + 3) + 7(2x - 5)$$