The method: Multiplying binomials

Multiply each term in the first by each term in the second (first, outer, inner, last). Combine like terms.

$$(4x - 1)(3x - 7) = 12x^2 - 28x - 3x + 7 = 12x^2 - 31x + 7$$

first, outer, inner, last; then combine

Problems 1 and 2 worked out · Version 0A

$$(3x + 6)(x + 8) = 3x^2 + 24x + 6x + 48 = 3x^2 + 30x + 48$$

first, outer, inner, last; then combine

$$(4x - 2)(x + 9) = 4x^2 + 36x - 2x - 18 = 4x^2 + 34x - 18$$

first, outer, inner, last; then combine

Multiplying binomials · Version 0A

1) $3x^2 + 30x + 48$
2) $4x^2 + 34x - 18$
3) $12x^2 - 9x - 21$
4) $16x^2 - 36x + 20$
5) $2x^2 - 20x + 42$
6) $3x^2 - 15x - 42$
7) $8x^2 - 46x + 56$
8) $3x^2 - 5x - 28$
9) $4x^2 + 24x + 32$
10) $9x^2 + 6x - 15$
11) $3x^2 - 16x + 21$
12) $x^2 + 6x + 8$
13) $12x^2 + 6x - 36$
14) $9x^2 + 48x + 64$
15) $3x^2 - 20x + 12$
16) $6x^2 + 2x - 4$
17) $4x^2 + 26x + 40$
18) $2x^2 - 13x + 15$
19) $8x^2 + 24x + 10$
20) $12x^2 + 41x + 35$
21) $8x^2 - 10x - 12$