

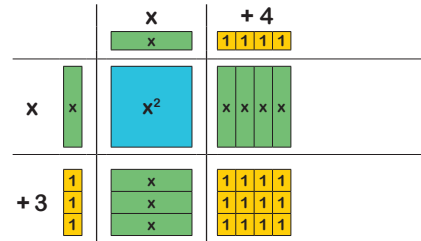
# Expanding Double Brackets (A) Using the Grid Method **ANSWERS**



**Section A** Expand the brackets and simplify. Use the grid method and algebra tiles to help you.

**Example**

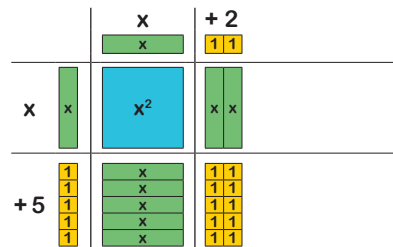
Expand and simplify:  
 $(x + 3)(x + 4)$



$$x^2 + 4x + 3x + 12$$

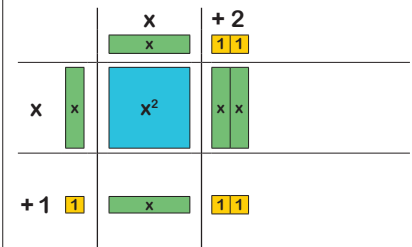
$$x^2 + 7x + 12$$

1)  $(x + 2)(x + 5)$



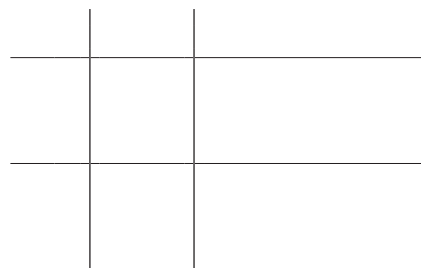
$$x^2 + 7x + 10$$

2)  $(x + 2)(x + 1)$



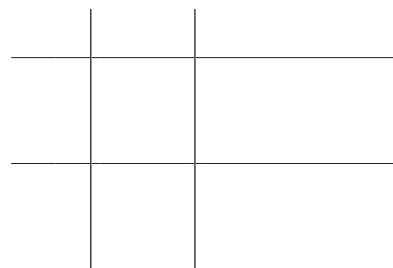
$$x^2 + 3x + 2$$

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



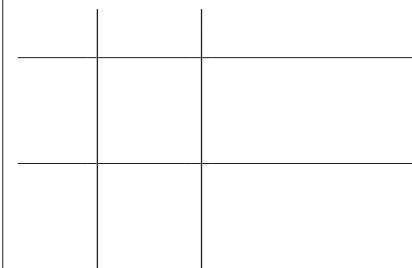
$$x^2 + 9x + 18$$

4)  $(x + 8)(x + 4)$



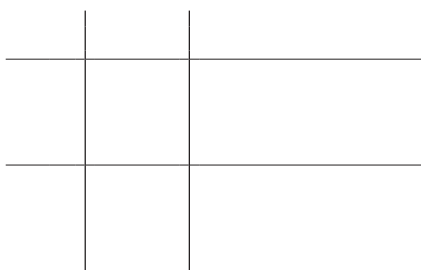
$$x^2 + 12x + 32$$

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



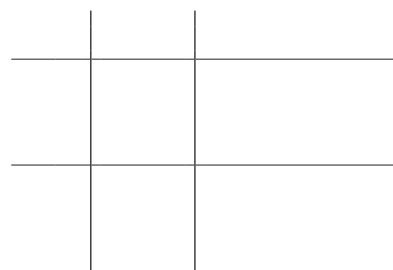
$$x^2 - 3x - 18$$

6)  $(x - 5)(x + 4)$



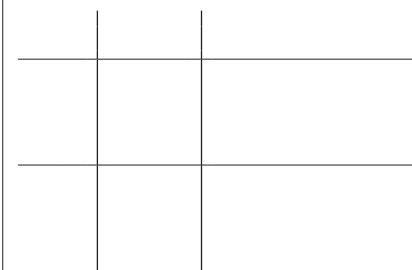
$$x^2 - x - 20$$

7)  $(x + 8)(x - 9)$



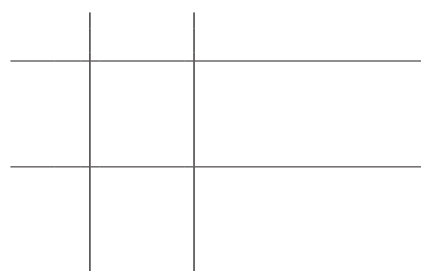
$$x^2 - x - 72$$

8)  $(x - 4)(x - 1)$



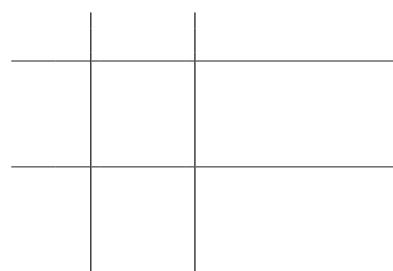
$$x^2 - 5x + 4$$

9)  $(2 - x)(x + 1)$



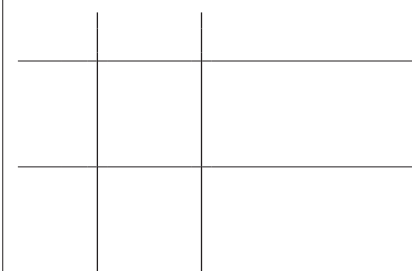
$$-x^2 + x + 2$$

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



$$-x^2 + 7x - 10$$

11)  $(7 + x)(3 - x)$



$$-x^2 - 4x + 21$$

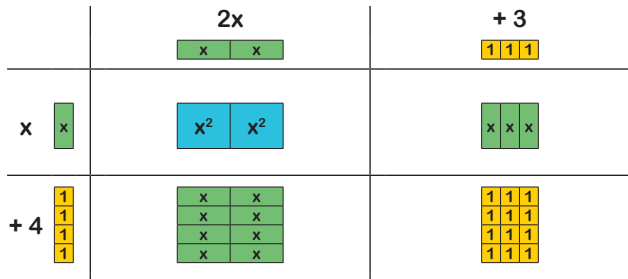
# Expanding Double Brackets (A) Using the Grid Method **ANSWERS**



## Section B

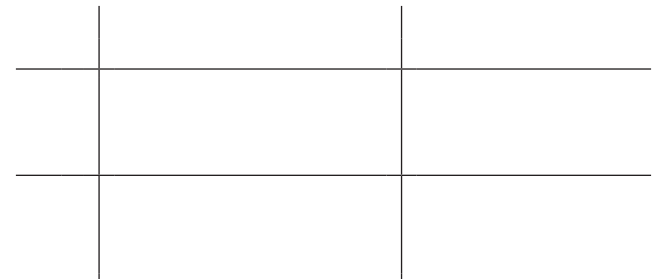
Example

Expand and simplify:  $(2x + 3)(x + 4)$



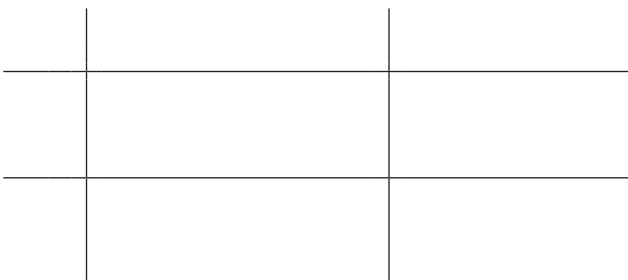
$$2x^2 + 11x + 12$$

1)  $(5x + 2)(x + 4)$



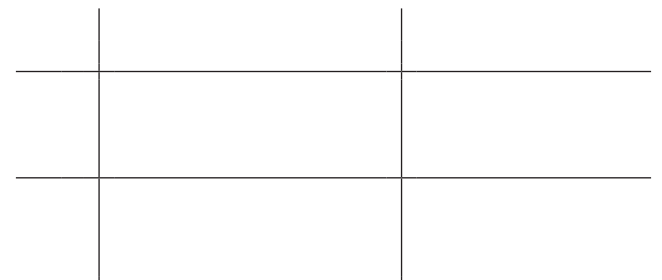
$$5x^2 + 22x + 8$$

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



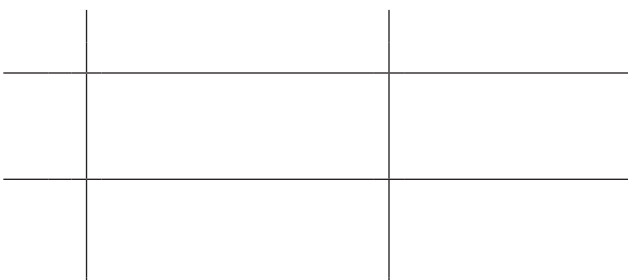
$$6x^2 + 26x + 28$$

3)  $(7x - 4)(x - 9)$



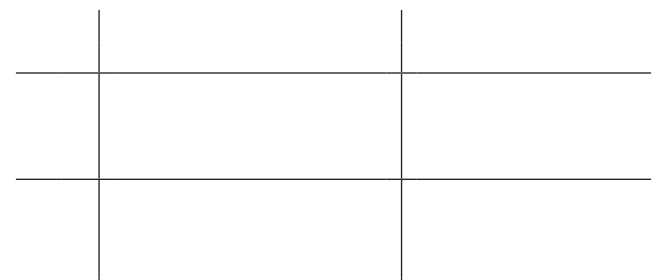
$$7x^2 - 67x + 36$$

4)  $(5x - 2)(3x + 4)$



$$15x^2 + 14x - 8$$

5)  $(2x - 3)(7x - 11)$



$$14x^2 - 43x + 33$$

# Expanding Double Brackets (A) Using the Grid Method **ANSWERS**



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6)  $(11 + x)(5 - x)$


$-x^2 - 6x + 55$

7)  $(4 - x)(3 - 4x)$


$4x^2 - 19x + 12$

8)  $(7x - 8)(2 - 5x)$


$-35x^2 + 54x - 16$

9)  $(3 + 5x)(3 - 8x)$


$-40x^2 - 9x + 9$

10)  $(2 - 3x)(x + 7)$


$-3x^2 - 19x + 14$

11)  $(1 - 2x)(x - 6)$


$-2x^2 + 13x - 6$