

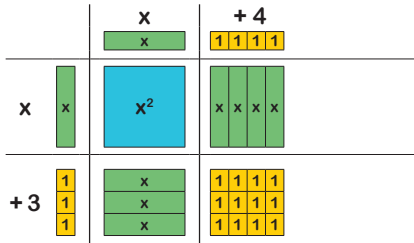
Expanding Double Brackets (A) Using the Grid Method



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

Example

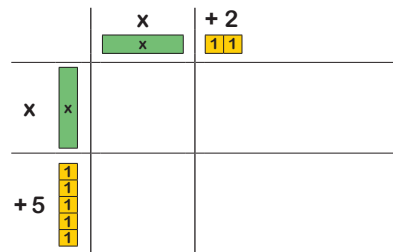
Expand and simplify:
 $(x + 3)(x + 4)$



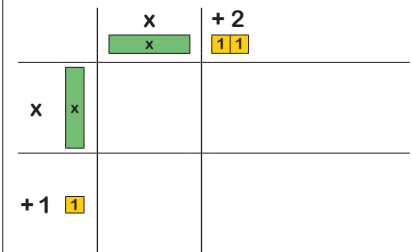
$$x^2 + 4x + 3x + 12$$

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

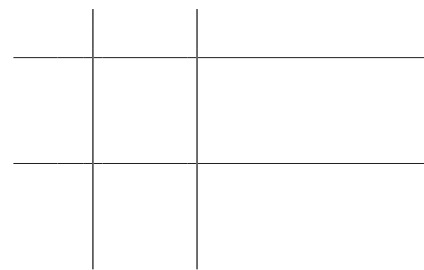
1) $(x + 2)(x + 5)$



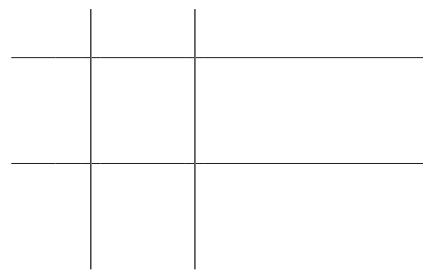
2) $(x + 2)(x + 1)$



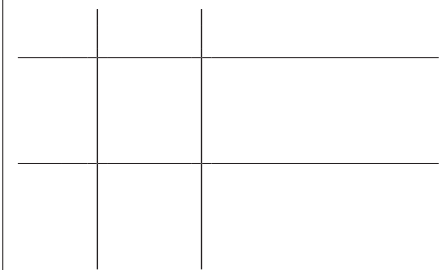
3) $(x + 3)(x + 6)$



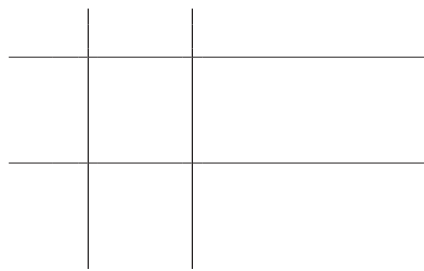
4) $(x + 8)(x + 4)$



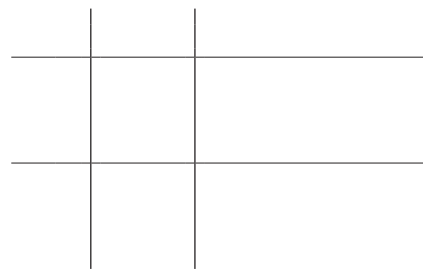
5) $(x - 6)(x + 3)$



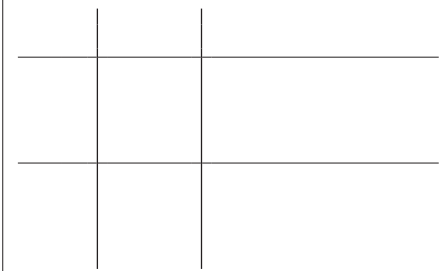
6) $(x - 5)(x + 4)$



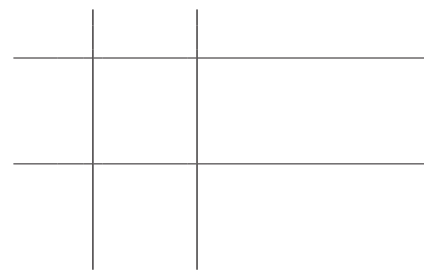
7) $(x + 8)(x - 9)$



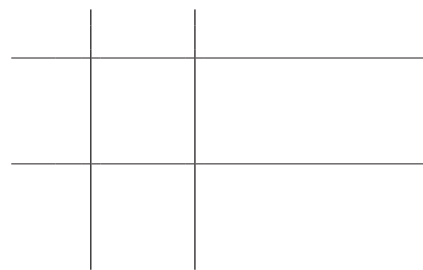
8) $(x - 4)(x - 1)$



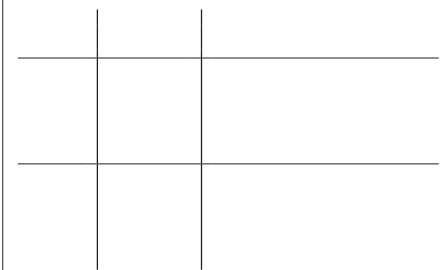
9) $(2 - x)(x + 1)$



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



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



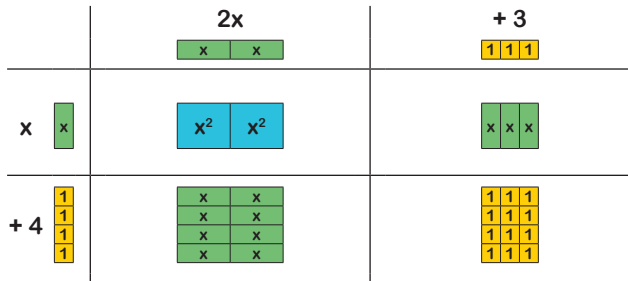
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Section B

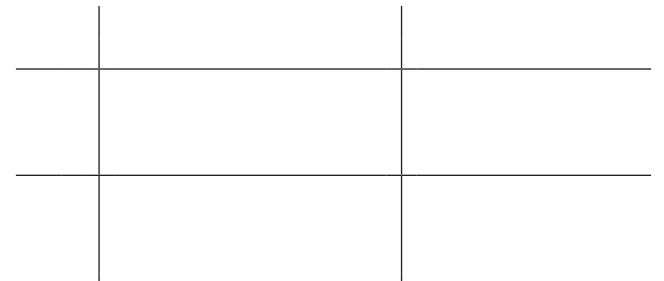
Example

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

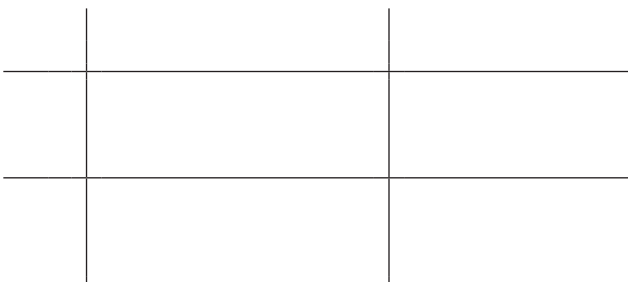


$$2x^2 + 11x + 12$$

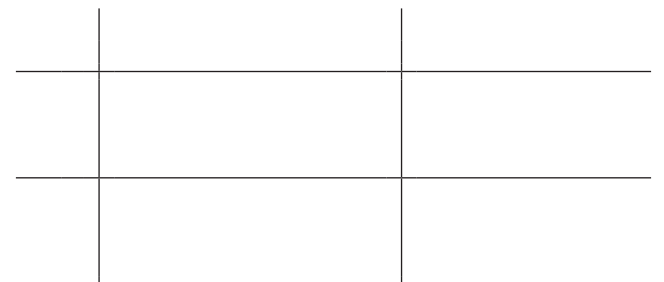
1) $(5x + 2)(x + 4)$



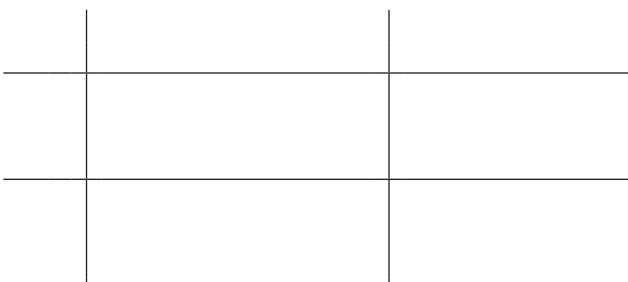
2) $(3x + 7)(2x + 4)$



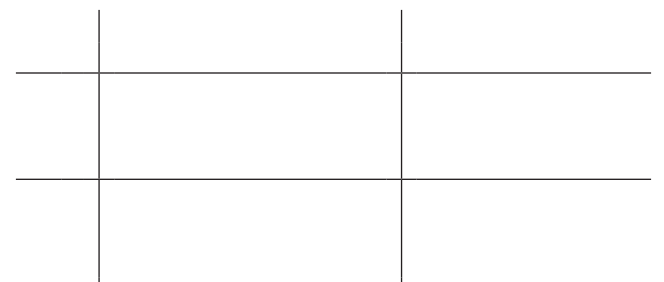
3) $(7x - 4)(x - 9)$



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



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



Expanding Double Brackets (A) Using the Grid Method



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

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

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

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

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

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

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