Expand using the Box Method

(2d - 3)(4d - 7)

	2d	-3
4d	$8d^2$	+12d
-7	-14d	+21

$8d^2 - 26d + 21$

Given the Box, factor back into the two binomials

Find GCF of the top row.

	3g ?	−4 ?
6g ?	$18g^2$	-24g
-5 ?	-15g	+20

$(3g-4)(6g-5)$

	4x ?	? -7
2x ?	$8x^2$	-14x
9 ?	+36x	-63

	8Q ?	3 ?
3Q ?	$24Q^2$	+9Q
1 ?	+8Q	+3

	2a ?	-3 ?
2a ?	$4a^2$	-6a
-3 ?	-6a	+9

A quadratic in Standard Form:

$$ax^2 + bx + c$$

a is the coefficient of the squared term (also called the quadratic term)

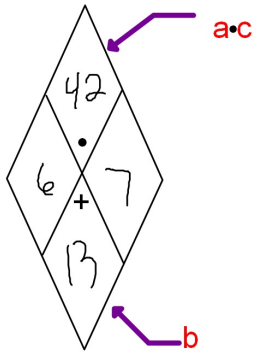
b is the coefficient of the linear term

c is the constant

Factor into 2 binomials.

$2a^2 + 13a + 21$

a = 2
b = 13
c = 21



$2a^2 + 13a + 21$

$(a+3)(2a+7)$