



Algebraic Functions - Quadratic to Add To M and Multiply to N

1 Which pair of integers add to 11 and multiply to 24?

$$x^2 + 11x + 24 = (x + a)(x + b)$$

A	B	C	D	E	F
5, 12	5, 11	7, 6	4, 3	6, 8	3, 8

2 Which pair of integers add to 13 and multiply to 36?

$$x^2 + 13x + 36 = (x + a)(x + b)$$

A	B	C	D	E	F
10, 2	12, 8	9, 4	4, 7	6, 2	13, 0

3 Which pair of integers add to 12 and multiply to 32?

$$x^2 + 12x + 32 = (x + a)(x + b)$$

A	B	C	D	E	F
4, 3	8, 4	7, 8	5, 7	6, 8	9, 5

4 Which pair of integers add to 12 and multiply to 27?

$$x^2 + 12x + 27 = (x + a)(x + b)$$

A	B	C	D	E	F
3, 9	0, 12	4, 13	4, 10	-1, 6	-1, 7

5 Which pair of integers add to 4 and multiply to 3?

$$x^2 + 4x + 3 = (x + a)(x + b)$$

A	-4, 2	B	-2, -2
C	-1, 3	D	2, 5
E	4, 3	F	1, 3

6 Which pair of integers add to 18 and multiply to 81?

$$x^2 + 18x + 81 = (x + a)(x + b)$$

A	B	C	D	E	F
9, 10	13, 9	6, 10	6, 5	9, 9	9, 13

7 Which pair of integers add to 4 and multiply to 0?

$$x^2 + 4x + 0 = (x + a)(x + b)$$

A	7, 4	B	8, -2
C	-1, -4	D	3, 4
E	4, 0	F	7, -2

8 Which pair of integers add to 7 and multiply to 0?

$$x^2 + 7x + 0 = (x + a)(x + b)$$

A	B	C	D	E	F
7, 0	2, 1	6, -3	8, -4	6, -1	6, 0