



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

1 Which pair of integers add to -2 and multiply to -24?

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

A	-6, 4	B	-8, 5
C	-10, 6	D	-5, 7
E	-6, 8	F	-10, 2

2 Which pair of integers add to -14 and multiply to 45?

$$x^2 - 14x + 45 = (x + a)(x + b)$$

A	-5, -10	B	-5, -9
C	-6, -10	D	-6, -9
E	-4, -11	F	-3, -6

3 Which pair of integers add to -5 and multiply to 6?

$$x^2 - 5x + 6 = (x + a)(x + b)$$

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

4 Which pair of integers add to -3 and multiply to -18?

$$x^2 - 3x + -18 = (x + a)(x + b)$$

A	-8, 3	B	-8, 1
C	-9, 0	D	-7, 0
E	-11, -2	F	-6, 3

5 Which pair of integers add to -10 and multiply to 9?

$$x^2 - 10x + 9 = (x + a)(x + b)$$

A	-6, -10	B	-1, -9
C	-1, -6	D	2, -13
E	-1, -8	F	-3, -5

6 Which pair of integers add to 0 and multiply to -4?

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

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

7 Which pair of integers add to 6 and multiply to 5?

$$x^2 + 6x + 5 = (x + a)(x + b)$$

A	B	C	D	E	F
1, 4	1, 3	-1, 8	1, 5	-2, 6	0, 4

8 Which pair of integers add to -3 and multiply to -4?

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

A	-5, 5	B	-8, -2
C	-2, -3	D	-9, -1
E	-7, 1	F	-4, 1