

Quadratic Functions: Factoring when a≠1

Directions: Use what you know about factoring when a≠1 to factoring each quadratic. Match them to the corresponding standard from quadratic and fill in the letter – number match in the blanks below to answer the riddle.

1.) $y = 2x^2 + 9x + 4$

E. $(3x + 1)(3x + 4)$

2.) $y = 10x^2 - 23x - 5$

C. $y = (4x + 2)(x + 4)$

3.) $y = x^2 + 13x + 12$

I. $y = (x + 12)(x + 1)$

4.) $y = 2x^2 + 11x + 14$

T. $y = (3x - 4)(x - 2)$

5.) $y = 3x^2 - 10x + 8$

S. $y = (7x + 2)(x + 3)$

6.) $y = 4x^2 - 12x + 5$

U. $y = (5x + 1)(2x - 5)$

7.) $y = 7x^2 + 23x + 6$

G. $y = (2x - 1)(2x - 5)$

8.) $y = 5x^2 - 2x - 3$

O. $y = (3x + 2)(x + 2)$

9.) $y = 2x^2 + 3x - 9$

M. $y = (2x + 7)(x + 2)$

10.) $y = 9x^2 + 15x + 4$

R. $y = (5x + 3)(x - 1)$

11.) $y = 3x^2 + 8x + 4$

A. $y = (x + 4)(2x + 1)$

12.) $y = 4x^2 + 18x + 8$

V. $y = (2x - 3)(x + 3)$

Why do Plants hate math?

	B								
	10	12	1	2	7	10	3	5	
	6	3	9	10	7		H	10	4
	5								
	Q								
	7	2	1	8	10	8	11	11	5
								5	7