

Algebra Connect

Number of Players – 3 per group: 2 players, 1 moderator

Materials needed: Game Board, copy of answers for moderator, two dice, chips of two different colors

Rules:

1. Decide who goes first by tossing a die.
2. The first player tosses both dice and locates the corresponding box on the game board. For example, if the player tosses a 3 and a 4, they may go to the 3rd row, 4th column, or the 4th row, 3rd column.
3. The player solves the problem and asks the moderator if he/she is correct. If the solution is correct, the player places his/her marker in that box. If the solution is incorrect, the other player can steal the box by giving the correct solution.
4. If a player tosses the dice and the box indicated is already occupied, the player rolls the dice again.
5. The winner is the player who has four of his/her game markers in a row (row, column, or diagonal).

Algebra Connect - Factoring Trinomials

	1	2	3	4	5	6
1	$x^2+2x-63$	$x^2-21x+108$	$x^2-11x+24$	$x^2+5x-36$	$x^2-13x+30$	x^2+x-12
2	$x^2-10x+0$	$x^2-2x-80$	$x^2+18x+77$	$x^2-13x+36$	$x^2+16x+55$	x^2-x-2
3	$x^2+13x+42$	$x^2-18x+77$	$x^2-15x+44$	x^2-7x+6	$x^2-9x+18$	x^2+5x+0
4	$x^2+5x-66$	x^2-9	x^2+x-2	$x^2-11x+24$	$x^2+10x+25$	$x^2+7x-60$
5	$x^2-10x-11$	x^2+2x-3	$x^2+3x-40$	$x^2-10x+24$	x^2-6x+8	$x^2-4x-12$
6	$x^2-7x+10$	x^2-1	$x^2-15x+36$	$x^2-16x+63$	$x^2-3x-10$	$x^2+4x-77$

Algebra Connect – Factoring Trinomials Answers

	1	2	3	4	5	6
1	$(x-7)(x+9)$	$(x-12)(x-9)$	$(x-8)(x-3)$	$(x+9)(x-4)$	$(x-3)(x-10)$	$(x-3)(x+4)$
2	$(x-10)(x-0)$	$(x-10)(x+8)$	$(x+7)(x+11)$	$(x-9)(x-4)$	$(x+5)(x+11)$	$(x+1)(x-2)$
3	$(x+7)(x+6)$	$(x-7)(x-11)$	$(x-11)(x-4)$	$(x-1)(x-6)$	$(x-6)(x-3)$	$(x+0)(x+5)$
4	$(x-6)(x+11)$	$(x-3)(x+3)$	$(x+2)(x-1)$	$(x-3)(x-8)$	$(x+5)(x+5)$	$(x+12)(x-5)$
5	$(x-11)(x+1)$	$(x+3)(x-1)$	$(x+8)(x-5)$	$(x-6)(x-4)$	$(x-2)(x-4)$	$(x-6)(x+2)$
6	$(x-5)(x-2)$	$(x+1)(x-1)$	$(x-12)(x-3)$	$(x-7)(x-9)$	$(x+2)(x-5)$	$(x-7)(x+11)$

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4	$(x-6)(x+11)$	$(x-3)(x+3)$	$(x+2)(x-1)$	$(x-3)(x-8)$	$(x+5)(x+5)$	$(x+12)(x-5)$
5	$(x-11)(x+1)$	$(x+3)(x-1)$	$(x+8)(x-5)$	$(x-6)(x-4)$	$(x-2)(x-4)$	$(x-6)(x+2)$
6	$(x-5)(x-2)$	$(x+1)(x-1)$	$(x-12)(x-3)$	$(x-7)(x-9)$	$(x+2)(x-5)$	$(x-7)(x+11)$