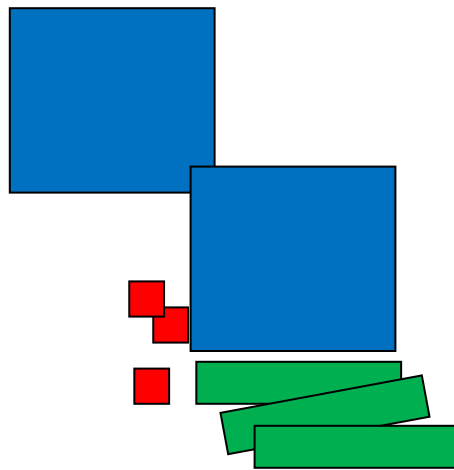# "Tri" Factors

$\blacksquare = x^2$ $\blacksquare = x$ $\square = 1$

Number of Players: 4-6

Materials: 20-25 cards with trinomial expressions written on them
2 sets of algebra tiles per 2 students
1 felt mat per pair of students
Timer, if desired

Procedure:

1. Give each set of partners 1 felt mat and 2 sets of algebra tiles.

2. Review the terms, examples, and helpful hints.

3. Practice collecting tiles for a trinomial expression, forming them into a rectangle, and determining the width and length of the rectangle (factors).

4. Have the leader pull a white trinomial card out of the bag and set it in the middle for everyone to see.

5. Each pair puts out the algebra tiles that concretely represent the trinomial expression and forms them into a rectangle to determine the factors. The factors are recorded on a sheet.

6. The first pair to do everything in #5 above, is the winner of the point and the round if they can prove that these factors are correct working backwards and using the factors they have formed.

Challenge: Use the algebra tiles to represent the factors of the trinomial expressions on the challenge cards.