Big Ideas Math®

Make My Team

▶ Materials:

- Trinomial cards
- Binomial cards
- Scrap paper
- Pencil
- Timer
- Score chart

▶ Directions:

Students play as a group and then form different teams of three each round. Each student needs a score chart.

1. Shuffle the two separate stacks of cards. One-third of the students choose a trinomial card and two-thirds of the students choose a binomial card. Students may look at their cards but should keep them face down.
2. On the count of three, the timer begins, and students flip their cards for others to see. Students with a trinomial card need to find the two binomial cards whose product equals the trinomial on their card. Students with a binomial card need to find the trinomial card for which their binomial is a factor and the second binomial card that is the other factor.
3. Once the teams are created and everyone in the team agrees, team members record the time on their score charts. **NOTE**: Some students may not have a match due to the shuffling of the cards and/or the number of students playing.
4. Students who do not have a match verify the products of each team. If the product is correct, a checkmark is written on each team member's score chart. If the product is incorrect, an X is written on each team member's score chart. **NOTE**: Students without a match do not write a time, checkmark, or X on their score chart for this round.
5. The matched cards are now discarded and unmatched cards are returned to the appropriate stacks.
6. Repeat steps 1–5 until time is up.
7. Students add their times for each round. Then, they add 30 seconds for each X and subtract five seconds for each checkmark. This answer is the final score.

BIG IDEAS LEARNING®

▶ Who Wins?

The student with the lowest final score wins.

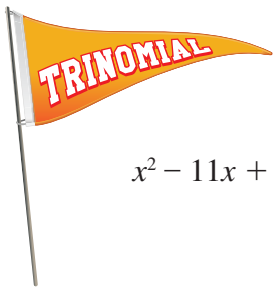
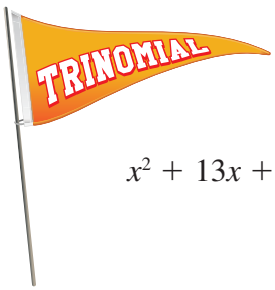
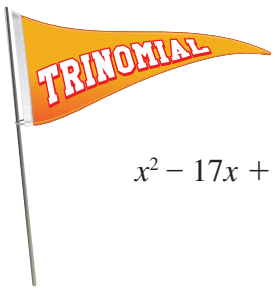
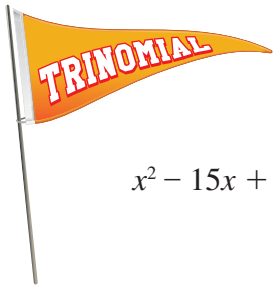
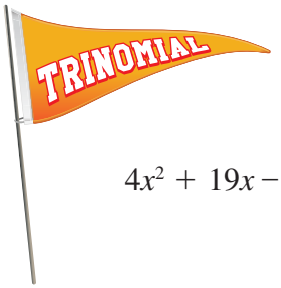
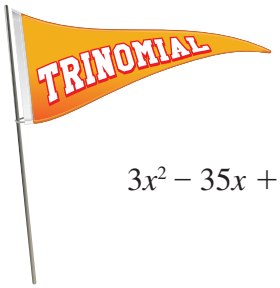
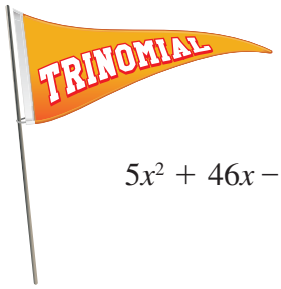
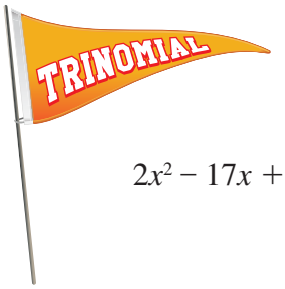
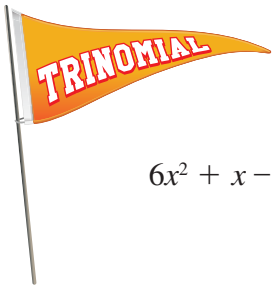
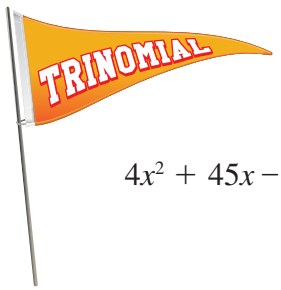
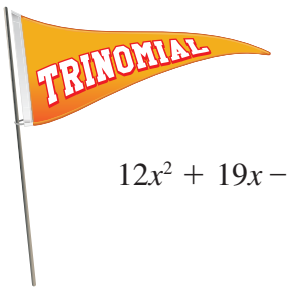
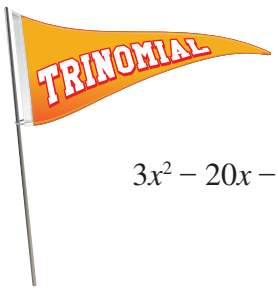
▶ Tips:

- The timer should be large and visible for all students.
- A time limit may need to be set for the formation of teams.

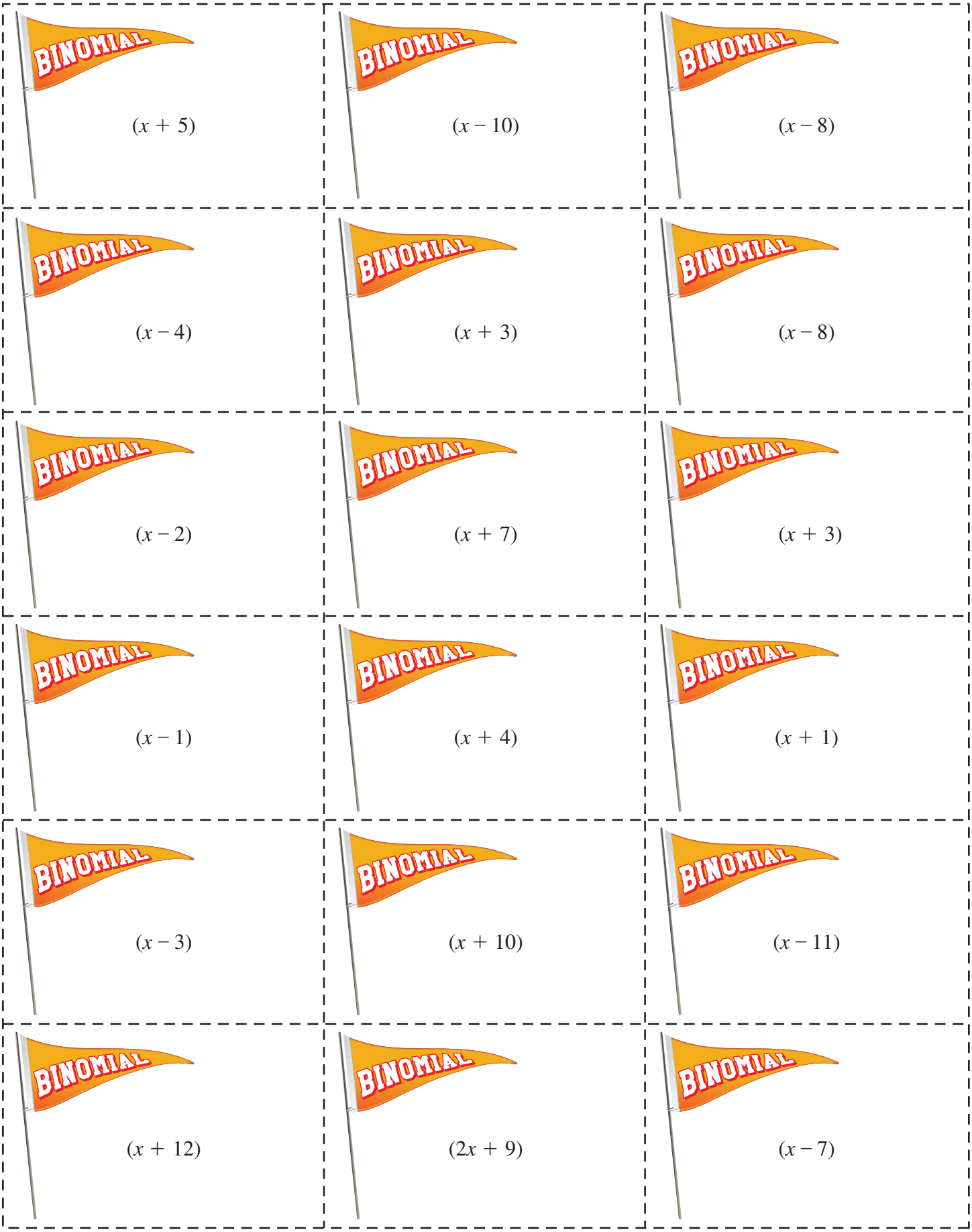
▶ Discuss:

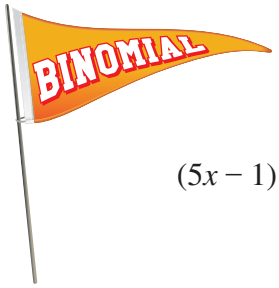
Discuss whether it was easier to have a trinomial card or a binomial card.

Trinomial cards for Make My Team

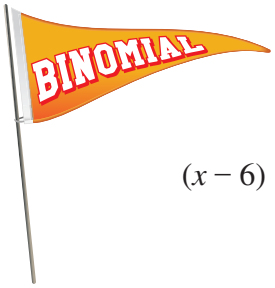
 $x^2 - 11x + 30$	 $x^2 + 13x + 22$	 $x^2 - 17x + 60$
 $x^2 - 15x + 56$	 $4x^2 + 19x - 30$	 $3x^2 - 35x + 88$
 $5x^2 + 46x - 40$	 $2x^2 - 17x + 8$	 $6x^2 + x - 40$
 $4x^2 + 45x - 36$	 $12x^2 + 19x - 18$	 $3x^2 - 20x - 32$

Binomial cards for Make My Team

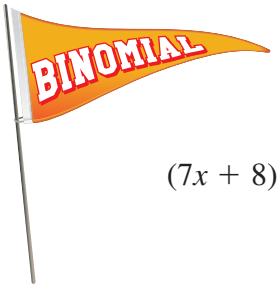




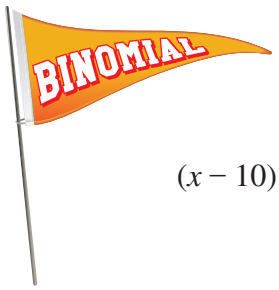
$(5x - 1)$



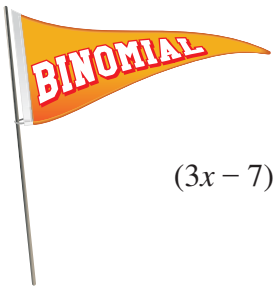
$(x - 6)$



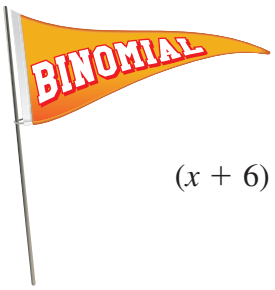
$(7x + 8)$



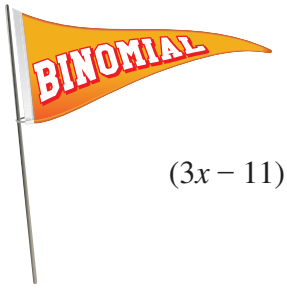
$(x - 10)$



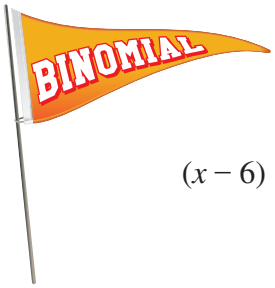
$(3x - 7)$



$(x + 6)$



$(3x - 11)$



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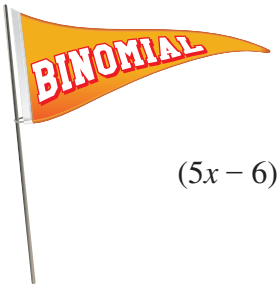
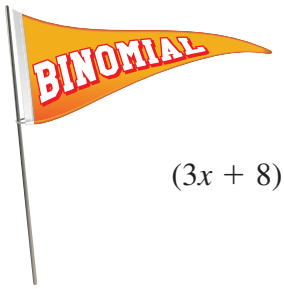
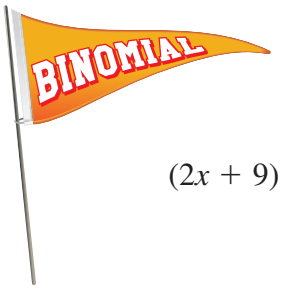


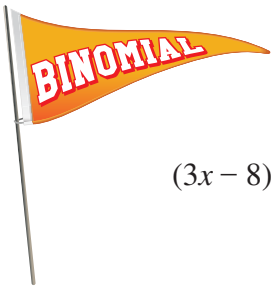
$(5x - 6)$



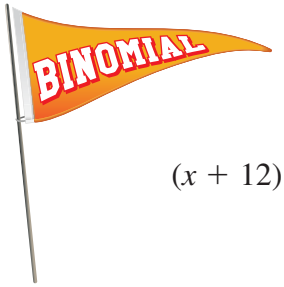
$(3x + 8)$



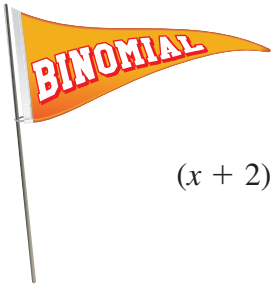
$(2x + 9)$



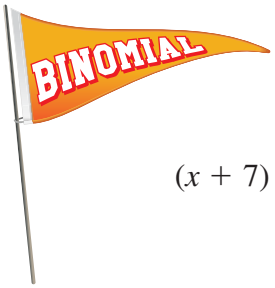
$(3x - 8)$



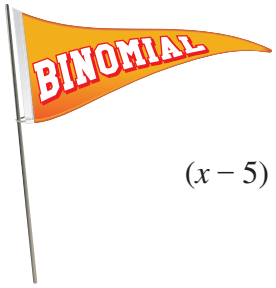
$(x + 12)$



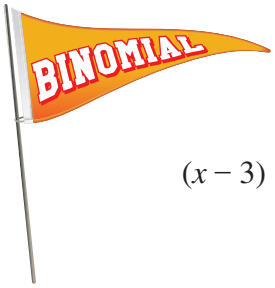
$(x + 2)$



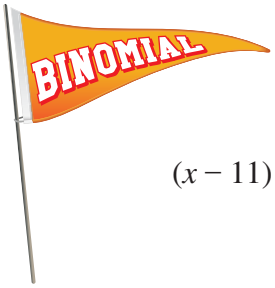
$(x + 7)$



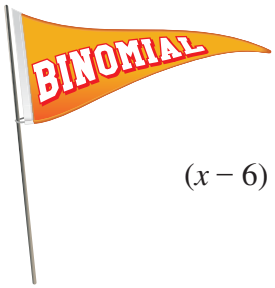
$(x - 5)$



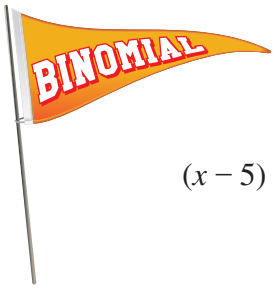
$(x - 3)$



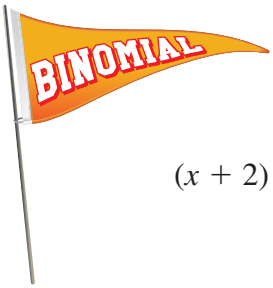
$(x - 11)$



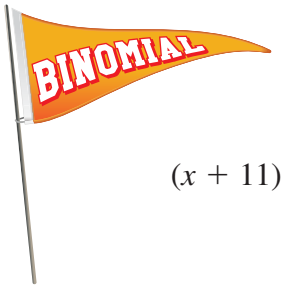
$(x - 6)$



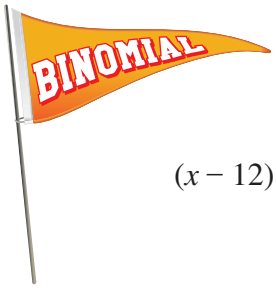
$(x - 5)$



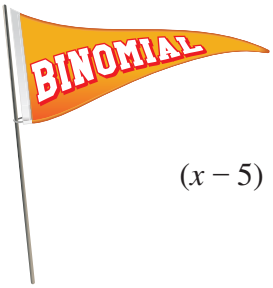
$(x + 2)$



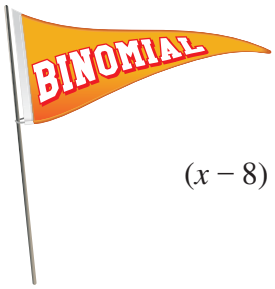
$(x + 11)$



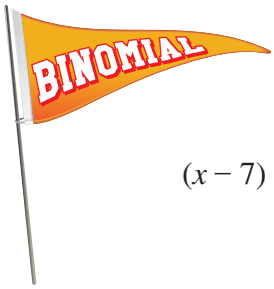
$(x - 12)$



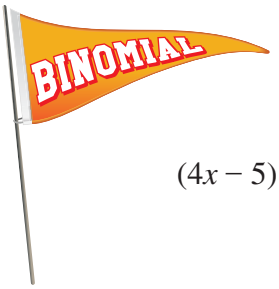
$(x - 5)$



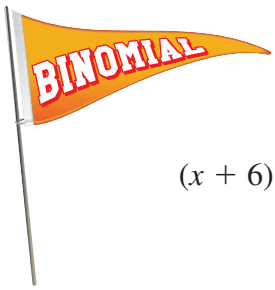
$(x - 8)$



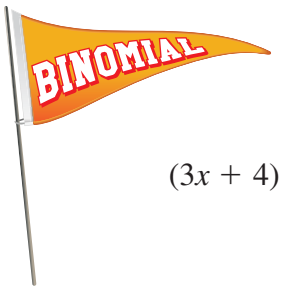
$(x - 7)$



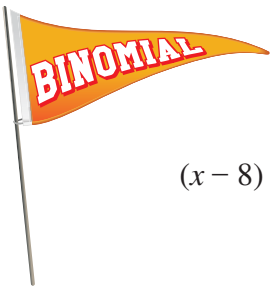
$(4x - 5)$



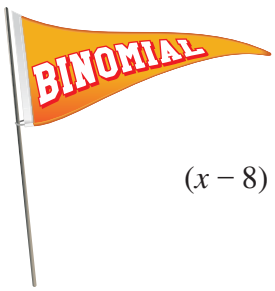
$(x + 6)$



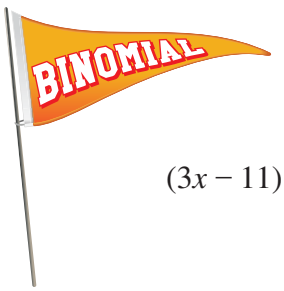
$(3x + 4)$



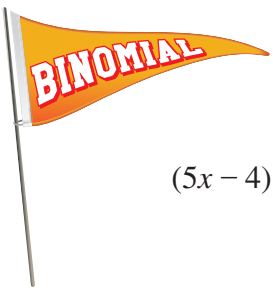
$(x - 8)$



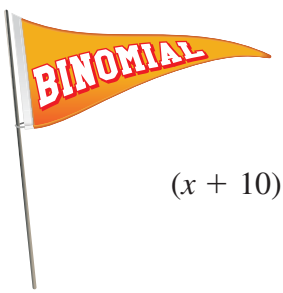
$(x - 8)$



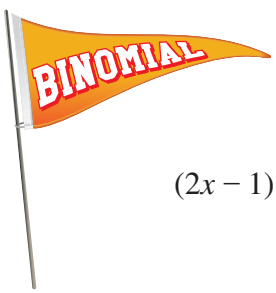
$(3x - 11)$



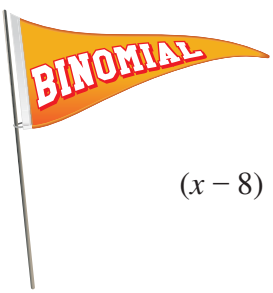
$(5x - 4)$



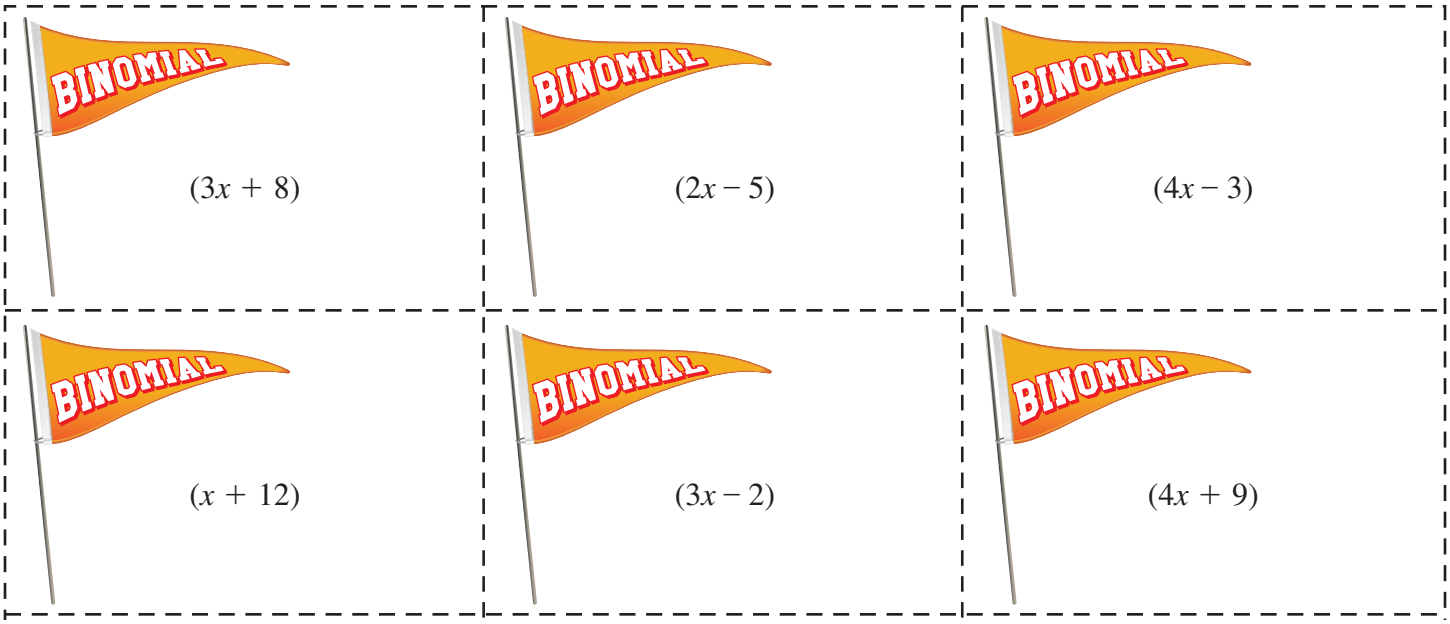
$(x + 10)$



$(2x - 1)$



$(x - 8)$



Score chart for Make My Team

Round #	Time (in seconds)	☑ or ☒
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		

Answers for Make My Team

$x^2 - 5x - 50 = (x + 5)(x - 10)$

$x^2 - 12x + 32 = (x - 8)(x - 4)$

$x^2 - 5x - 24 = (x + 3)(x - 8)$

$x^2 + 5x - 14 = (x - 2)(x + 7)$

$x^2 + 2x - 3 = (x + 3)(x - 1)$

$x^2 + 5x + 4 = (x + 4)(x + 1)$

$x^2 + 7x - 30 = (x - 3)(x + 10)$

$x^2 + x - 132 = (x - 11)(x + 12)$

$2x^2 - 5x - 63 = (2x + 9)(x - 7)$

$5x^2 - 31x + 6 = (5x - 1)(x - 6)$

$7x^2 - 62x - 80 = (7x + 8)(x - 10)$

$3x^2 + 11x - 42 = (3x - 7)(x + 6)$

$3x^2 - 29x + 66 = (3x - 11)(x - 6)$

$15x^2 + 22x - 48 = (5x - 6)(3x + 8)$

$6x^2 + 11x - 72 = (2x + 9)(3x - 8)$

$x^2 + 14x + 24 = (x + 12)(x + 2)$

$x^2 + 2x - 35 = (x + 7)(x - 5)$

$x^2 - 14x + 33 = (x - 3)(x - 11)$

$x^2 - 11x + 30 = (x - 6)(x - 5)$

$x^2 + 13x + 22 = (x + 2)(x + 11)$

$x^2 - 17x + 60 = (x - 12)(x - 5)$

$x^2 - 15x + 56 = (x - 8)(x - 7)$

$4x^2 + 19x - 30 = (4x - 5)(x + 6)$

$3x^2 - 20x - 32 = (3x + 4)(x - 8)$

$3x^2 - 35x + 88 = (x - 8)(3x - 11)$

$5x^2 + 46x - 40 = (5x - 4)(x + 10)$

$2x^2 - 17x + 8 = (2x - 1)(x - 8)$

$6x^2 + x - 40 = (3x + 8)(2x - 5)$

$4x^2 + 45x - 36 = (4x - 3)(x + 12)$

$12x^2 + 19x - 18 = (3x - 2)(4x + 9)$