**Finding Your Match**

You will be given a quadratic expression either in standard form or factored form and will need to find the student in your class who has an expression that matches yours.

Record your results in the space below:

My expression was: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

My partner’s expression was: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Explain why your two expressions match:

**Find Your Match—Teacher Instructions**

Cut out the following slips, mix them up, and give one to each student. If you have an odd number of students in the class, use the alternate slip instead of starting a new row. The person without a match should be asked to factor his or her expression.

|  |  |
| --- | --- |
| (*x* – 9)(*x* + 7) | *x*2 – 2*x* – 63 |
| (3*x* + 1)(*x* – 1) | 3*x*2 – 2*x* – 1 |
| (5*x* + 3)(*x* + 2) | 5*x*2 + 13*x* + 6 |
| (2*x* + 3)(2*x* + 3) | 4*x*2 + 12*x* + 9 |
| (*x* – 14)(*x* – 2) | *x*2 – 16*x* + 28 |
| (3*x* – 1)(2*x* – 4) | 6*x*2 – 14*x* + 4 |
| (*x* – 7)(*x* + 6) | *x*2 – *x* – 42 |
| (9*x* + 2)(*x* + 5) | 9*x*2 + 47*x* + 10 |

|  |  |
| --- | --- |
| (*x* – 9)(*x* + 8) |  *x*2 – *x* – 72 |
| (3*x* + 1)(3*x* + 1) | 9*x*2 + 6*x* + 1 |
| (5*x* – 2)(*x* – 2) | 5*x*2 – 12*x* + 4 |
| (2*x* – 3)(2*x* – 3) | 4*x*2 – 12*x* + 9 |
| (*x* + 14)(*x* + 2) | *x*2 + 16*x* + 28 |
| (3*x* + 1)(2*x* + 4) | 6*x*2 + 14*x* + 4 |
| (*x* + 7)(*x* – 6) | *x*2 + *x* – 42 |
| (9*x* – 2)(*x* + 5) | 9*x*2 + 43*x* – 10 |
|  |
| ALTERNATIVE: | 5*x*2 + 13*x* + 6 |