

# Factoring $x^2 + bx + c$

Name: \_\_\_\_\_

Factor the trinomials and find one factor in the left column (how to color it) and one factor in the right column (which letter to color).

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R | F | A | J | G | I | P | P | F | A | J | H | E | Q |
| K | H | D | M | L | A | E | F | H | B | P | L | A | E |
| J | B | V | S | W | C | G | H | B | Q | M | P | C | J |
| H | V | W | J | I | M | C | B | Q | K | G | M | N | A |
| A | I | O | L | G | I | S | Q | K | H | D | W | K | H |
| L | G | E | O | C | J | I | F | G | B | X | F | G | D |
| M | C | A | I | R | L | H | J | D | X | K | A | D | Y |
| N | N | L | J | E | U | C | B | R | F | J | D | Z | R |
| O | O | N | C | H | E | U | Q | K | J | B | S | Y | X |
| N | V | O | V | C | A | I | F | A | D | P | O | R | Y |
| U | Q | U | N | P | L | G | G | B | M | Y | N | S | X |
| R | T | S | T | T | Y | L | D | U | T | V | T | W | X |

|  |            |            |   |
|--|------------|------------|---|
|  | $(x + 1)$  | $(x - 1)$  | A |
|  | $(x + 2)$  | $(x - 2)$  | B |
|  | $(x + 3)$  | $(x - 3)$  | C |
|  | $(x + 4)$  | $(x - 4)$  | D |
|  | $(x + 5)$  | $(x - 5)$  | E |
|  | $(x + 6)$  | $(x - 6)$  | F |
|  | $(x - 7)$  | $(x + 7)$  | G |
|  | $(x - 8)$  | $(x + 8)$  | H |
|  | $(x - 10)$ | $(x + 9)$  | I |
|  | $(x - 11)$ | $(x + 10)$ | J |
|  | $(x - 12)$ | $(x + 11)$ | K |
|  | $(x - 9)$  | $(x + 12)$ | L |

$x^2 + 13x + 12$

$x^2 + 14x + 40$

$x^2 + 13x + 42$

$x^2 - 11x + 28$

$x^2 - 13x + 40$

$x^2 - 16x + 60$

$x^2 + x - 2$

$x^2 + x - 6$

$x^2 + 2x - 15$

$x^2 - 3x - 88$

$x^2 - 3x - 108$

$x^2 + 2x - 99$