

# 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 |

$x^2 + 13x + 12$

$x^2 + 14x + 40$

$x^2 + 13x + 42$

$x^2 - 11x + 28$

$x^2 - 13x + 40$

$x^2 - 16x + 60$

$x^2 + x - 2$

$x^2 + x - 6$

$x^2 + 2x - 15$

$x^2 - 3x - 88$

$x^2 - 3x - 108$

$x^2 + 2x - 99$