

Name: _____

Date: _____

Period: _____

Factoring Trinomials I

Color By Number

Directions: For each problem below, choose the correct answer. Each answer has a color attached to it. Once you have answered each question, color the image based on the color attached to your answer.

Question	A	B	C	D
1. Factor the trinomial below: $x^2 + x - 6$	$(x - 3)(x + 2)$ (red)	$(x + 3)(x - 2)$ (purple)	$(x - 6)(x + 1)$ (blue)	$(x + 6)(x - 1)$ (orange)
2. Factor the trinomial below: $x^2 - 3x - 18$	$(x - 9)(x + 2)$ (yellow)	$(x + 6)(x - 3)$ (purple)	$(x - 6)(x + 3)$ (green)	$(x + 9)(x - 2)$ (light blue)
3. Factor the trinomial below: $x^2 - 5x - 6$	$(x - 6)(x + 1)$ (orange)	$(x - 3)(x - 2)$ (green)	$(x + 6)(x - 1)$ (red)	$(x - 3)(x + 2)$ (light blue)
4. Factor the trinomial below: $x^2 + 3x + 2$	$(x + 1)(x + 1)$ (red)	$(x - 2)(x + 1)$ (green)	$(x + 2)(x + 2)$ (orange)	$(x + 2)(x + 1)$ (light blue)
5. Factor the trinomial below: $x^2 - 10x + 21$	$(x - 3)(x - 6)$ (purple)	$(x + 3)(x + 7)$ (green)	$(x - 7)(x - 3)$ (yellow)	$(x - 7)(x + 3)$ (blue)
6. Factor the trinomial below: $x^2 - 5x + 4$	$(x + 4)(x + 1)$ (orange)	$(x - 4)(x + 1)$ (yellow)	$(x - 4)(x + 1)$ (blue)	$(x - 4)(x - 1)$ (light blue)
7. Factor the trinomial below: $x^2 - 7x - 18$	$(x - 2)(x + 9)$ (light blue)	$(x - 3)(x - 6)$ (green)	$(x + 6)(x - 3)$ (red)	$(x - 9)(x + 2)$ (orange)
8. Factor the trinomial below: $x^2 - 11x + 28$	$(x - 9)(x - 2)$ (yellow)	$(x - 7)(x - 4)$ (purple)	$(x - 14)(x - 2)$ (blue)	$(x - 5)(x - 6)$ (light blue)
9. Factor the trinomial below: $x^2 + 5x + 4$	$(x + 4)(x + 1)$ (yellow)	$(x - 4)(x + 1)$ (green)	$(x - 4)(x + 1)$ (red)	$(x - 4)(x - 1)$ (purple)
10. Factor the trinomial below: $x^2 - 9x + 20$	$(x + 5)(x + 4)$ (orange)	$(x - 5)(x + 4)$ (green)	$(x - 5)(x - 4)$ (blue)	$(x + 5)(x - 4)$ (light blue)
11. Factor the trinomial below: $-x^2 - 2x + 35$	$(x - 5)(x - 7)$ (blue)	$(x + 7)(5 - x)$ (light blue)	$(7 - x)(x + 5)$ (red)	$(7 - x)(5 - x)$ (green)
12. Factor the trinomial below: $x^2 + 6x + 8$	$(x + 8)(x + 1)$ (yellow)	$(x - 4)(x - 2)$ (purple)	$(x + 2)(x + 4)$ (green)	$(x - 2)(x + 8)$ (light blue)
13. Factor the trinomial below: $2x^2 + 26x + 84$	$(2x + 14)(x + 6)$ (red)	$(2x + 14)(2x + 12)$ (orange)	$(x + 7)(x + 6)$ (light blue)	$(2x + 21)(x + 2)$ (green)

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Work It Out Scratch Paper

Directions: Use the space below to show work for each problem. You must show all work to receive full credit for this assignment.

1.	2.	3.
4.	5.	6.
7.	8.	9.
10.	11.	12.
13.		

