

Name: _____

Date: _____

$x^2 + bx + c$: find two numbers that MULTIPLY to c and ADD to b . Signs tell the story. Last two are challenge problems!

1. Factor $x^2 + 5x + 6$.

show your work

2. Factor $x^2 + 7x + 10$.

show your work

3. Factor $x^2 - 8x + 15$.

show your work

4. Factor $x^2 + 2x - 8$.

show your work

5. Factor $x^2 - 3x - 10$.

show your work

6. Factor $x^2 - 36$. (A trinomial with $b = 0$!)

show your work

7. Factor $x^2 - 8x - 20$. (Trainer echo - Aug 2025 Q4 zeros!)

show your work

8. Factor $x^2 - 26x - 120$. (Trainer echo - Jan 2026 Q4!)

show your work

9. Factor $x^2 + 5x - 24$, then state the zeros of $y = x^2 + 5x - 24$. ★ CHALLENGE

show your work

10. The rectangle $x^2 + 11x + 24$ has sides $(x + ?)$ and $(x + ?)$. Find both, and give the sides when $x = 5$. ★ CHALLENGE

show your work