Name \_\_\_\_\_

Factor each trinomial (standard form) into the product of two binomials (intercept form).

## **Example:** $x^2 + 14x + 45$

What multiplies to 45?	1 and 45 3 and 15 5 and 9
Which of those pairs adds to 14?	5 and 9

Answer: (x + 5)(x + 9)

$x^2 + 14x + 45$	$x^2 + 18x + 45$	$x^2 + 46x + 45$
$x^2 + 11x + 24$	$x^2 + 10x + 24$	$x^2 + 14x + 24$
$x^2 + 12x + 36$	$x^2 + 13x + 36$	$x^2 + 20x + 36$
$x^2 - 15x - 100$	$x^2 + 20x + 100$	$x^2 + 29x + 100$
		50

$x^2 + 9x + 8$	$x^2 - 6x + 8$	$x^2 - 2x - 8$	$x^2 + 7x - 8$
$x^2 - 11x + 24$	$x^2 - 14x + 24$	$x^2 - 25x + 24$	$x^2 - 10x + 24$
$x^2 - 2x - 24$	x <sup>2</sup> - 5x - 24	x <sup>2</sup> + 5x - 24	$x^2 - 10x + 25$
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## MIXED BAG - YOU GOT THIS

x <sup>2</sup> - 25	$x^2 - 2x - 15$	$x^2 + 10x - 75$	$x^2 - 20x + 51$
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		8 I B	×
$x^2 + 14x - 32$	x <sup>2</sup> - 1	$x^2 - 2x + 1$	$x^2 + 12x - 45$
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