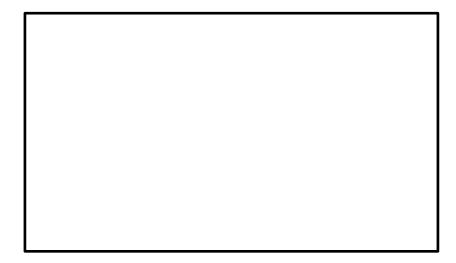**Use an area model to simplify the following: $(x + 9)(x - 4)$**

Use an area model to factor and solve the following Quadratic Equation: $x^2 + 8x + 15 = 0$

ANSWER KEY

Use an area model to simplify the following: **(x + 9)(x − 4)**

	x	+	9
x	x · x		9x
-4	-4x		-36

$$(x \cdot x) + 9x + (-4x) + (-36)$$

$$x^2 + 5x - 36$$

Use an area model to factor and solve the following Quadratic Equation:

$$x^2 + 8x + 15 = 0$$

	X	+	5
X	x^2		$5x$
+ 3	$3x$		15

$$(x + 5)(x + 3) = 0$$

Solve for x by using the Zero Product Property

Solution Set: -5 and -3