

Example 2

... continued

$$(-5)(4) = -20$$

	$-3x$	4
$-2x$	$6x^2$	$-8x$
-5	$15x$	-20

Add the terms inside the grid, simplifying where possible.

$$6x^2 - 8x + 15x - 20 = 6x^2 + 7x - 20$$

Write a final statement.

$$(-3x + 4)(-2x - 5) = 6x^2 + 7x - 20$$



Check Up

1. Multiply $(-x - 2y)(-3x - y)$ using grid multiplication without algebra tiles.



Compare your answer.

1. Multiply $(-x - 2y)(-3x - y)$ using grid multiplication without algebra tiles.

	$-x$	$-2y$
$-3x$	$3x^2$	$6xy$
$-y$	xy	$2y^2$

$$\begin{aligned} (-x - 2y)(-3x - y) &= 3x^2 + 6xy + xy + 2y^2 \\ &= 3x^2 + 7xy + 2y^2 \end{aligned}$$