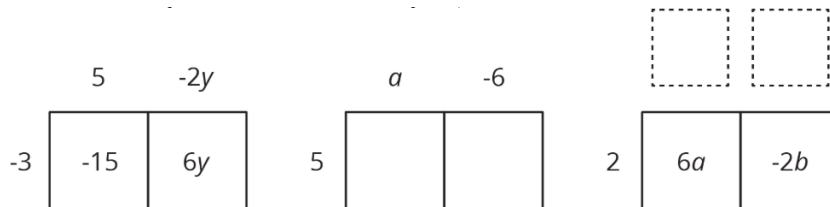


Grade 7: Factoring and Expanding with Negative Numbers

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In each row, write the equivalent expression. If you get stuck, use a diagram to organize your work. The first row is provided as an example. Diagrams are provided for the first three rows.



factored	expanded
$-3(5 - 2y)$	$-15 + 6y$
$5(a - 6)$	
	$6a - 2b$
$-4(2w - 5z)$	
$-(2x - 3y)$	
	$20x - 10y + 15z$
$k(4 - 17)$	
	$10a - 13a$
$-2x(3y - z)$	
	$ab - bc - 3bd$
$-x(3y - z + 4w)$	

Solution:

factored	expanded
$-3(5 - 2y)$	$-15 + 6y$
$5(a - 6)$	$5a - 30$
$2(3a - b)$	$6a - 2b$
$-4(2w - 5z)$	$-8w + 20z$
$-(2x - 3y)$	$-2x + 3y$
$5(4x - 2y + 3z)$	$20x - 10y + 15z$
$k(4 - 17)$	$4k - 17k$
$a(10 - 13)$	$10a - 13a$
$-2x(3y - z)$	$-6xy + 2xz$
$b(a - c - 3d)$	$ab - bc - 3bd$
$-x(3y - z + 4w)$	$-3xy + xz - 4xw$

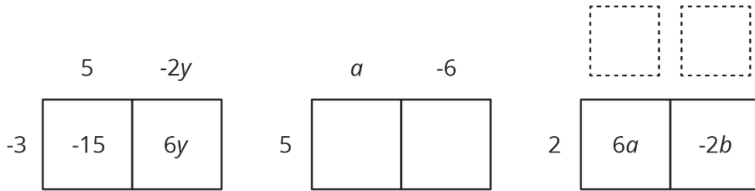
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Name: _____

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