

Fill in the Blanks

Factorising with Common Factors

Expanded Expression	HCF of Numbers	HCF of Variables	Factorised Expression
$7x + 14$	7		$7(x + 2)$
$20 + 30a$	10		$10(\boxed{2} + \boxed{3a})$
$15b - 5$	5		$5(3b - 1)$
$12x + 15$	3		$3(4x + 5)$
$30a - 12b$	6		$6(5a - 2b)$
$8cd + de$		d	$d(\boxed{8c} + \boxed{e})$
$10a + ab$		a	$a(10 + b)$
$x^2 - 5x$		x	$x(x - 5)$
$6x^2 + xy$		x	$x(6x + y)$
$4ab + 8b$	4	b	$4b(\boxed{a} + \boxed{2})$
$10cd - 25de$	5	d	$5d(2c - 5e)$
$4x^2 + 2x$	2	x	$2x(2x + 1)$
$14xy - 21x^2$	7	x	$7x(2y - 3x)$
$6x + 3 - 9y$	3		$3(2x + 1 - 3y)$
$5x^2 - 10xy + 20x$	5	x	$5x(x - 2y + 4)$
$24a^2b + 16abc$	8	ab	$8ab(3a + 2c)$
$\boxed{6x^2y} - 18xyz$	6	xy	$\boxed{6xy} (x - 3z)$
$12x + \boxed{8y} - 16yz$	4		$4(\boxed{3x} + 2y - \boxed{4yz})$
$35a^2b^2 + \boxed{14bcd}$	7	b	$\boxed{7b} (5a^2b + 2cd)$