Expanding and Factorising

Expand $2(3x-5)$	Expand $4y(y+7)$	Factorise $6b+10$	Factorise a^2-3a
Multiply each term in the bracket by 2: $2(3x-5)$ $= 2\times 3x - 2\times 5$ $= \mathbf{6x-10}$	Multiply each term by $4y$: $4y(y+7)$ $= 4y\times y + 4y\times 7$ $= \mathbf{4y^2+28y}$	Find common factors of $6b$ and 10: Common factor is 2 $6b+10 = 2\times 3b + 2\times 5$ $= \mathbf{2(3b+5)}$	Find common factors of a^2 and $3a$: Common factor is a $a^2-3a = a\times a - 3\times a$ $= \boldsymbol{a(a-3)}$
Expand $4(a+6)$	Expand $3x(x-2)$	Factorise $5x+20$	Factorise x^2+9x
$4a+24$	$3x^2-6x$	$5(x+4)$	$x(x+9)$
Expand $5(2d-1)$	Expand $5a(4+a)$	Factorise $16-8y$	Factorise d^2-7d
$10d-5$	$20a+5a^2$	$8(2-y)$	$d(d-7)$
Expand $7(3+4w)$	Expand $2f(f-6)$	Factorise $8w-12$	Factorise $2y^2+3y$
$21+28w$	$2f^2-12f$	$4(2w-3)$	$y(2y+3)$
Expand $-4(2x+5)$	Expand $4b(2b+5)$	Factorise $7a+7$	Factorise $6a-5a^2$
$-8x-20$	$8b^2+20b$	$7(a+1)$	$a(6-5a)$