



F · O · I · L

Given the expression $(y + 2)(y - 3)$

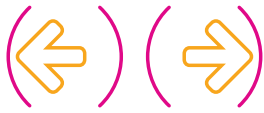


F

First

Multiply the first terms from both sets of brackets.

$$(y + 2)(y - 3)$$
$$y \times y = y^2$$



O

Outside

Multiply the outside terms from the two sets of brackets.

$$(y + 2)(y - 3)$$
$$y \times (-3) = -3y$$



I

Inside

Multiply the inside terms from the two sets of brackets.

$$(y + 2)(y - 3)$$
$$(+2) \times y = 2y$$



L

Last

Multiply the last terms from both sets of brackets.

$$(y + 2)(y - 3)$$
$$(+2) \times (-3) = (-6)$$



Put it all together

$$(y + 2)(y - 3)$$
$$= y^2 - 3y + 2y - 6$$
$$= y^2 - y - 6$$