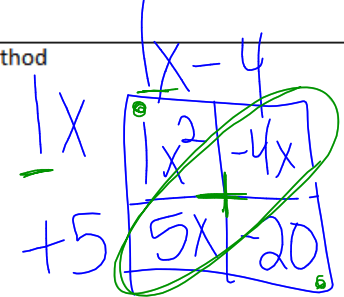


Multiplying Binomials: Two Methods

1. $(x - 4)(x + 5)$

<p>Distributing</p>	<p>Box Method</p> 
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$x(x+5)$

$x^2 + 1x - 20$

2. $(x-3)(2x-8)$

	$x-3$	
$2x$	$2x^2$	$-6x$
-8	$-8x$	24

 $2x^2 - 14x + 24$

3. $(10w-1)(10w+1)$

	$10w-1$	
$10w$	$100w^2$	$-10w$
$+1$	$10w$	-1

 $100w^2 - 1$

4. $(x^2 - x + 1)(x - 1)$

	x^2	$-x$	$+1$
x	x^3	$-x^2$	x
-1	$-x^2$	$+x$	-1

5. $(a+1)^2$

$(a+1)(a+1)$

	$a+1$
a	
$+1$	

$x^3 - 2x^2 + 2x - 1$

6. $(2q + 1)(2q^2 + 1)$

7. $(x + 3)(-2x^2 + 4x - 9)$

	$-2x^2$	$+4x$	-9
x	$-2x^3$	$4x^2$	$-9x$
$+3$	$6x^2$	$12x$	-27

$$-2x^3 - 2x^2 + 3x - 27$$

8. $(2z - 1)(1 + 3z^2)$

9. The length of a rectangle is represented by $5y^2 - 7$ and the width is represented by $3y^3$. Determine the area of the rectangle.

The diagram shows two rectangles. The first rectangle has a length of $5y^2 - 7$ and a width of $3y^3$. The area is calculated as $15y^5 - 21y^3$. The second rectangle has a length of $5y^2 - 7$ and a width of $3y^3$.

10. Express the product of $2x^2 + 7x - 10$ and $x + 5$ in standard form.