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MULTIPLYING BINOMIALS WORKSHEETS

- 1) Find the product $(2x - 5)(x + 3)$ using the table method by filling the table below.

Multiply	$2x$	-5
x		
3		

- 2) Fill in the following blanks to find the product $(p - 3)(3p + 1)$ using distributive property.

$$\begin{aligned}
 &(p - 3)(3p + 1) \\
 &= p(\underline{\hspace{2cm}}) - 3(\underline{\hspace{2cm}}) \\
 &= 3p^2 + \underline{\hspace{1cm}} - 9p - \underline{\hspace{1cm}} \\
 &= 3p^2 - 8p - 3
 \end{aligned}$$

- 3) Find the product $(n + 1)(n^2 - 1)$ using FOIL method.

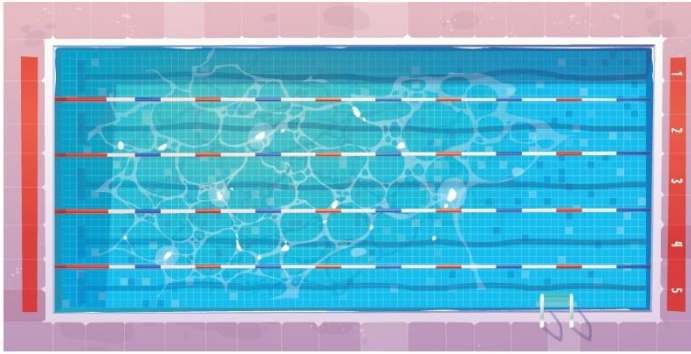
4) $(x - 1)(y + 3) = \underline{\hspace{2cm}}$

5) $(x^3 + 1)(x^2 - 1) = \underline{\hspace{2cm}}$

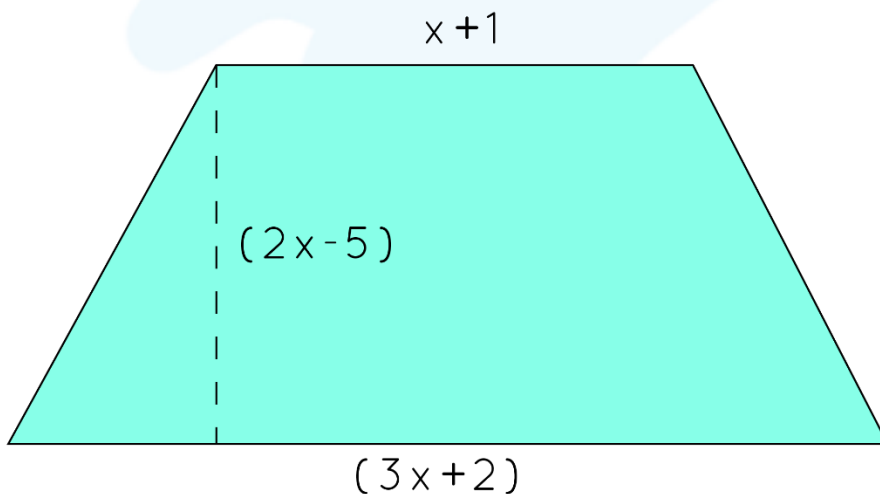
6) $(x + a)(x + b) = x^2 + (\underline{\hspace{2cm}})x + ab.$

7) $(3 - ab)(5 + ab) = \underline{\hspace{2cm}}$

- 8) What is the area of a swimming pool whose width is $(5x + 1)$ units and length is 2 units more than its width?



- 9) The length of a rectangular field is 2 times its width, x . The field is to be increased by 3 units on both sides. Write an expression that represents the area of the new field.
- 10) Find an expression that represents the area of the following trapezoid.



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- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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ANSWERS

1)	<table><tr><td>Multiply</td><td>2x</td><td>-5</td></tr><tr><td>x</td><td>2x²</td><td>-5x</td></tr><tr><td>3</td><td>6x</td><td>-15</td></tr></table> <p>Sum = x</p> <p>Thus, (2x-5) (x+3) = 2x²+x-15</p>	Multiply	2x	-5	x	2x ²	-5x	3	6x	-15
Multiply	2x	-5								
x	2x ²	-5x								
3	6x	-15								
2)	$(p - 3) (3p + 1)$ $= p (3p + 1) - 3 (3p + 1)$ $= 3p^2 + p - 9p - 3$ $= 3p^2 - 8p - 3$									
3)	$n^3 + n^2 - n - 1$									
4)	$x y + 3 x - y - 3$									
5)	$x^5 - x^3 + x^2 - 1$									
6)	$a + b$									
7)	$15 - 2ab - a^2b^2$									
8)	$25x^2 + 20x + 3$									
9)	$2x^2 + 18x + 36$									
10)	$4x^2 - 7x - \frac{15}{2}$									

FUN FACT

1. The sum of two monomials is a binomial.
2. The product of two binomials is found as follows:
 $(a + b)(x + y) = ax + ay + bx + by.$
3. FOIL is the most popular method used to find the product of binomials.

