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MULTIPLYING BINOMIALS WORKSHEETS

1) Find the product $(x + 1)(x + 3)$ using the following table.

Multiply	x	$+3$
x		
$+1$		

Sum =

2) Find the product $(2x - 1)(x + 2)$ using a table as shown in Question 1.

3) Find the product $(2m + n)(m - 2n)$ by FOIL method as shown below.

$$\begin{array}{c}
 \text{F} \quad \quad \text{L} \\
 \text{---} \quad \text{---} \\
 (2m + n)(m - 2n) \\
 \text{---} \quad \text{---} \\
 \text{O} \\
 = (2m)(m) + (2m)(-2n) + n(m) + n(-2n) \\
 = ?
 \end{array}$$

4) Find the product $(4 + ab)(3 - ab)$ by FOIL method as shown in Question 3.

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

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

7) $(8x + 3)(2x - 7) = 16x^2 + \underline{\hspace{2cm}} - 21.$

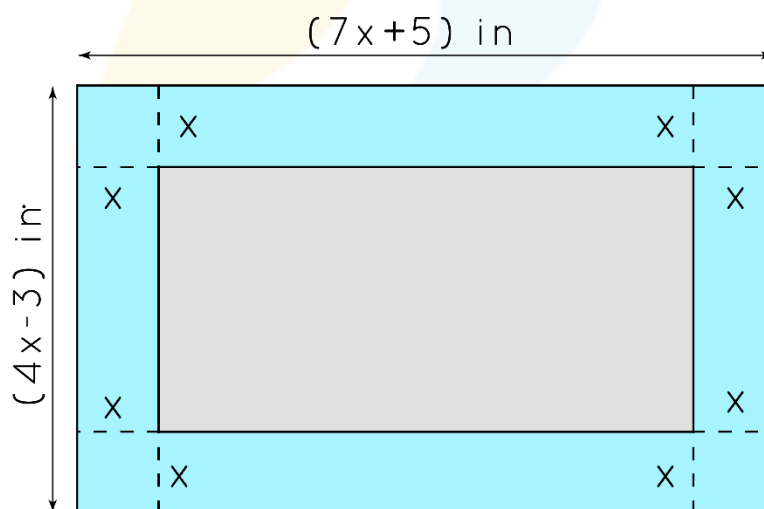
- 8) The length and width of a rectangular white board are $(4x + 2)$ units and $(2x - 1)$ units. Find its area.



Whiteboard

- 9) What is the coefficient of p in the product $(p - 3)(3p + 2)$?

- 10) Find the area of the region between the following two rectangles.



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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>x</td><td>+3</td></tr><tr><td>x</td><td>x²</td><td>3x</td></tr><tr><td>+1</td><td>x</td><td>3</td></tr></table> <p>Thus, (x+1) (x+3) = x²+4x+3</p>	Multiply	x	+3	x	x ²	3x	+1	x	3
Multiply	x	+3								
x	x ²	3x								
+1	x	3								
2)	2x ² + 3x - 2									
3)	2m ² - 3mn -2n ²									
4)	12 – ab – a ² b ²									
5)	-x ³ – x ² + x + 1									
6)	p ⁴ – 3p ³ + p – 3									
7)	-50x									
8)	8x ² – 2									
9)	-7									
10)	18x ² + 4x									

FUN FACT

1. A binomial is an algebraic expression with two terms.
2. To multiply two binomials, the easiest method is FOIL (First Outer Inner Last).
3. FOIL method is based upon the distributive property of addition over multiplication.

