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MULTIPLYING BINOMIALS WORKSHEETS

1) $(x - 7)(x - 3) = \underline{\hspace{2cm}}$

2) $(2m - 1)(3m - 5) = \underline{\hspace{2cm}}$

3) $(-8 + 2p)(3p - 6) = \underline{\hspace{2cm}}$

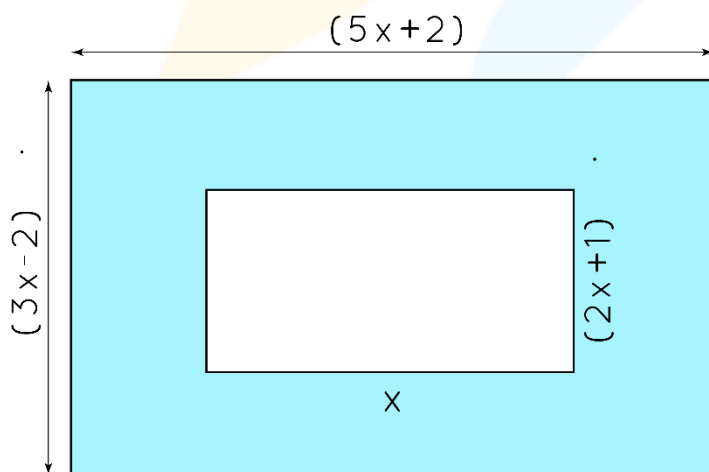
4) $(x^2 + 5)(x - 7) = \underline{\hspace{2cm}}$

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

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

7) $(4 + x)(x^2 + 4x) = \underline{\hspace{2cm}}$

8) Find the area of the shaded portion between the two rectangles.



9) The dimensions of a greeting card are $(x + 3)$ units and $(2x + 3)$ units. If each of the dimensions is increased by 3 units on both sides, then what is the new area?



10) $(10x^2 + 3y)(5x - 4y^2) =$ _____

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in an interesting way,
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Why choose Cuemath?

"Cuemath is a valuable addition to our family. We love solving puzzle cards. My daughter is now visualizing maths and solving problems effectively!"

- 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)	$x^2 - 10x + 21$
2)	$6m^2 - 13m + 5$
3)	$6p^2 - 36p + 48$
4)	$x^3 - 7x^2 + 5x - 35$
5)	$2a^2b^2 + abxy - 3x^2y^2$
6)	$p^2 + \frac{p}{6} - \frac{1}{3}$
7)	$x^3 + 8x^2 + 16x$
8)	$13x^2 - 5x - 4$
9)	$2x^2 + 27x + 81$
10)	$50x^3 - 40x^2y^2 + 15xy - 12y^3$

FUN FACT

To multiply certain type of binomials, we can use the following algebraic identities:

1. $(a+b)(a+b) = (a+b)^2 = a^2 + 2ab + b^2$
2. $(a-b)(a-b) = (a-b)^2 = a^2 - 2ab + b^2$
3. $(a+b)(a-b) = a^2 - b^2$

