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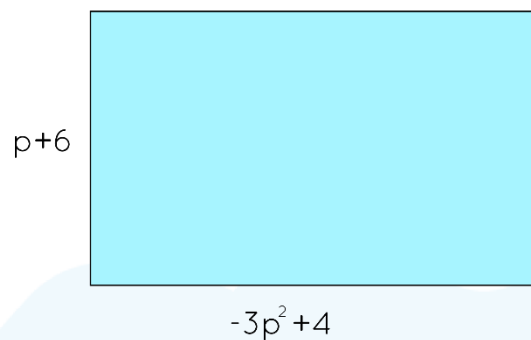
## Multiplying Polynomials Worksheets

1. What will be the result if  $(x-1-a)$  is multiplied with  $(1-a)$ ?
2. Find the product of the following polynomials:
  - A.  $(2-p^2)$  and  $(5p^2+1)$
  - B.  $(3x^3-x-3)$  and  $(-5x^2+2x+2)$
3. Simplify each expression:
  - A.  $(9pq^5)^2$
  - B.  $r(3p^2)^3$
4. If  $(7z^2-3z-4)(-9z^2+2z-3) = -63z^4 + 41z^3 - pz^2 + z + 12$ , find the value of  $p$ .
5. What should we multiply with  $(-2t^2-t+4)$  to get  $(10t^3+5t^2-20t)$ ?
6. What must be multiplied to  $\frac{x^3a}{b^5y^2}$  so that it makes it a perfect square?
7.  $k$  times  $(3+a^2-7a)$  becomes  $(6p+2pa^2-14pa)$ . Find the value of  $k$ .

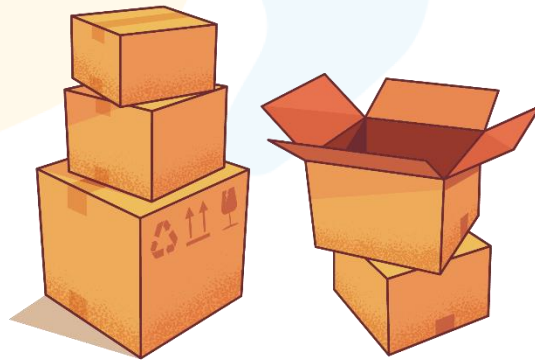
8. Evaluate:

$$\frac{(a+b+c)\{(a-b)^2 + (b-c)^2 + (c-a)^2\}}{2}$$

9. If the length and width of the rectangle are  $(-3p^2 + 4)$  and  $(p + 6)$  respectively. Find the area of the rectangle.



10. If the price of a commodity is  $\$(x^2 - 4x + 4)$  and Amy have to buy  $(x - 1)$  pieces of it. How much must Amy pay for it?



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"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) $x - 1 - 2a - ax + a^2$	6) $\frac{xa}{b}$
2) A) $9p^2 - 5p^4 + 2$ B) $-15x^5 + 6x^4 + 11x^3 + 13x^2 - 8x - 6$	7) $2p$
3) A) $-12x^3 - 16x^2 - 6x - 8$ B) $-z^5 - 7z^4 - 10z^3$	8) $a^3 + b^3 + c^3 - 3abc$
4) $-9$	9) $-3p^3 - 18x^2 + 4p + 24$
5) $-5$	10) $x^3 - 5x^2 + 8x - 4$

## FUN FACT

1. An algebraic expression without any variable is called a constant polynomial
2. Any term only containing the variable has a coefficient 1
3. Coefficient of a variable in a polynomial can be positive, negative or even zero

