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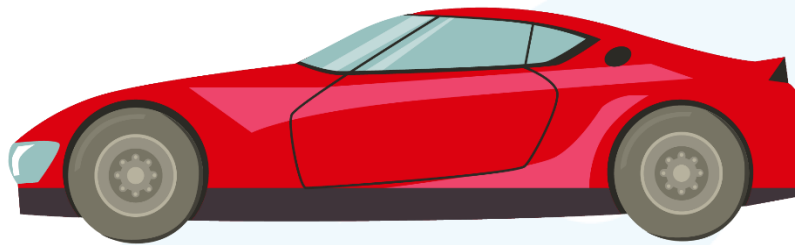
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## Multiplying Polynomials Worksheets

1. If  $n$  times  $(x^2 - 9)$  equals  $(\frac{x+3}{x-3})$ , find the value of  $n$ .
2. Simplify the expression  $(2t^23s^3)^4$ .
3. Find the product of the following polynomials:
  - A.  $(q + q^3 + 3)$  and  $(q^2 - 5q)$
  - B.  $(-t + 2t^4)$  and  $(-t - t^2 + 4)$
4. What must be multiplied with  $\frac{g^4b^2}{y}$  to make it a perfect cube?
5. What will be the result of the product  $\frac{2}{3}r^2t$  and  $\frac{81t}{32r^2}$ ?
6. If  $ax^3 + bx^2 + cx + d$  equals  $(x - 2)(x + 1)(x + 2)$ , find the value of  $c$ .
7. If a rope is  $(3z^3 - 4z^2 - 2)$  units long, and there are  $24z$  such ropes, find the length of all the ropes when measured together.



8. Every month  $\$(2xy - yz)$  is deposited in a bank account for  $4xy^2z$  months. Find the total amount in the account at the end of  $4xy^2z$  months .
9. A car is moving with a speed of  $(2y^3 - 3y)$  miles/hour. Find the distance covered after  $(y^2 + y)$  hours.



10. A motorbike costs  $\$(z^2y - y^3)$ , find the cost of  $\frac{1}{y^2z^2}$  such motorbikes.



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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) $\frac{-1}{4} + \frac{5}{8p^2}$	6) $\frac{12 + x^2}{x - 2}$
2) A) $\frac{27}{8}z^{10}y^{15}$ B) $\frac{3t^5}{s^9}$	7) $16q^3$
3) A) $-s^5 + s^4 + 15s^3 + 6s^2 + 12s + 9$ B) $0.125q^5 - 0.5q^3 + 0.075q^4 - 0.3q^2$	8) $63x^2y + 70x^2 + 171y + 190$
4) $\frac{55p}{s}$	9) $23x^3$
5) $a = 1, b = 1, c = -12$	10) $263xy$

## 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

