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## Multiplying Polynomials Worksheets

1. Find the product of  $(\frac{-1}{3}p^2 + \frac{5}{6})$  and  $(\frac{3}{4p^2})$  ?

2. Simplify each of the following expression:

A.  $\frac{4}{9}(\frac{3}{2}z^2y^3)^5$

B.  $3s(\frac{t}{s^2})^5$

3. Find the product of the following polynomials:

A.  $(3s^2 + s^3 + 3)$  and  $(4s - s^2 + 3)$

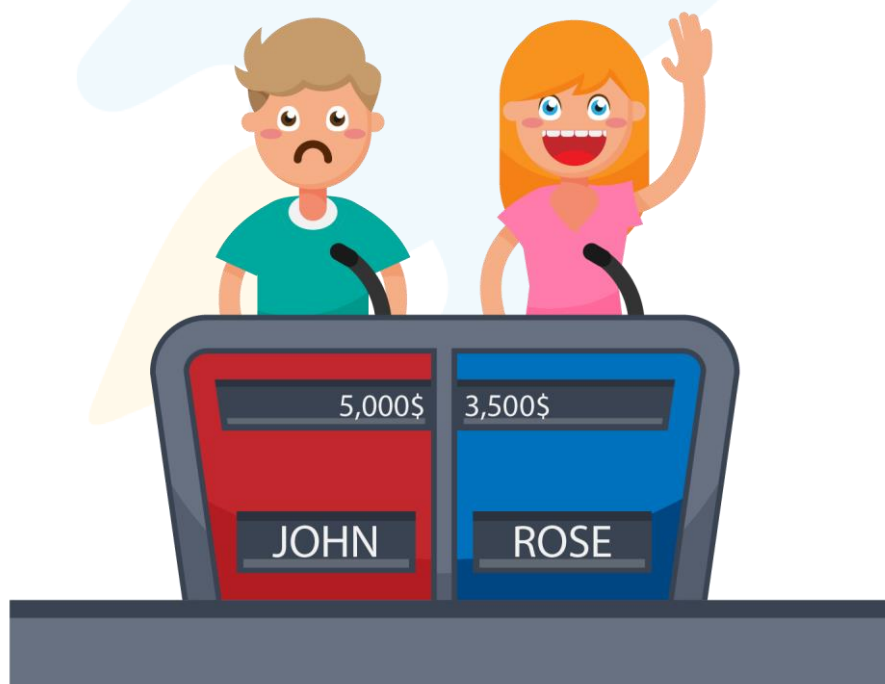
B.  $(0.5q^2 + 0.3q)$  and  $(0.25q^3 - q)$

4. What must be multiplied to  $(\frac{3}{77}s^2 + \frac{11}{5}s)$  to get  $(\frac{15}{7}ps + 121p)$  ?

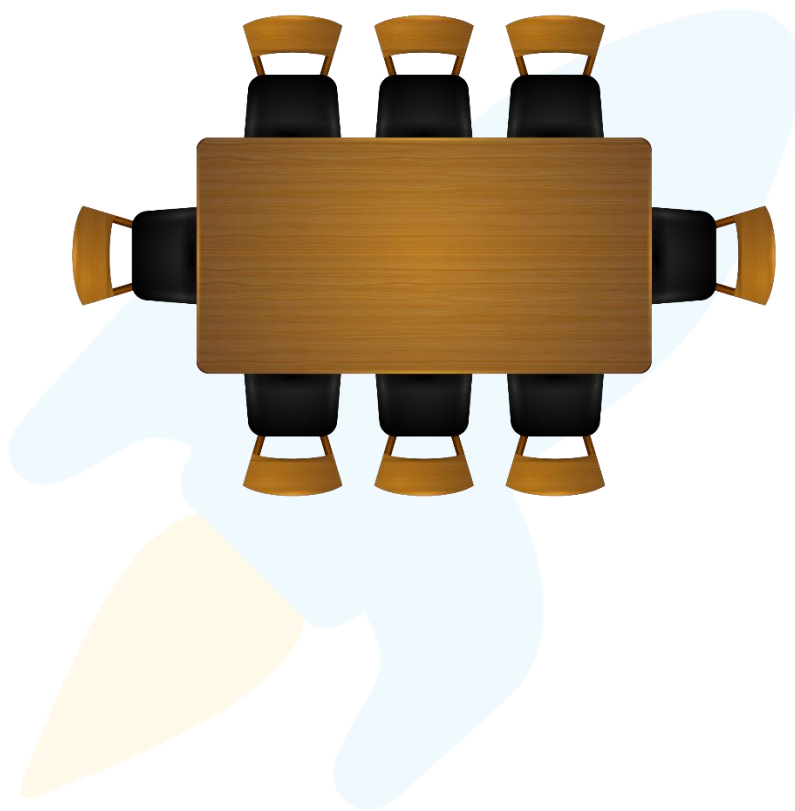
5. If  $ax^2 + bx + c$  equals the product of  $(x - 3)(x + 4)$ , find the values of  $a, b, c$ .

6. If  $P = 4x^3 + 2x^5$ ,  $Q = 13x^4 - 26x^3$ , and  $R = 39$ , find the value of  $\frac{P \times R}{Q}$ .

7. The product of two numbers is  $2q$ , if one of them is  $\frac{1}{8q^2}$ , find the other.
8. Half of the perimeter of a rectangle is  $7x^2 + 9y + 29$ , if the length of the rectangle is  $7x^2 + 19$ , find its area.
9. If there are  $x^2$  boys and  $2x^2$  girls were participating in a quiz competition. If each of the girls scored  $20x$  points and each of the boys scored  $17x$  points. How many more points did the girls scored than the boys?



10. Price of one table and one chair is  $3x$  and  $4y$  respectively.  
If Simon bought  $33y$  tables and  $41x$  chairs. Find the total amount he had to pay.



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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

