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For Grades 1 - 10



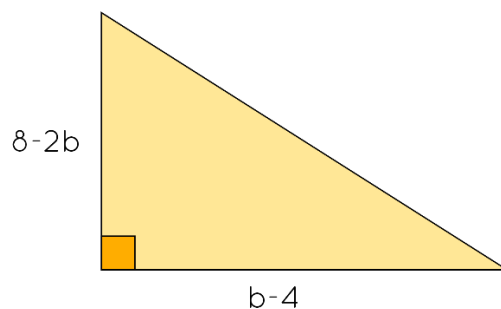
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Multiplying Polynomials Worksheets

1. Multiply $4x$ with $3x$.
2. What will be the result of the product of (px^2) and $(px^2 + x + p)$?
3. Find the product of the following polynomials:
 - A. $(-4x^2 - 2)$ and $(3x + 4)$
 - B. $(-z^3 - 2z^2)$ and $(5z + z^2)$
4. What should we multiply with $(3x^2 + 2x)$ to get $(6x^3 + 4x^2)$.
5. Simplify each of the following expressions:
 - A. $(z^2y^4)^2$
 - B. $(5p^2q^4)^3$
6. If $(3x^2 + 4y^2)3xy = ax^3y + 12xy^3$. Find the value of a .
7. If $3p(2q - 4r) = 6pq - mpr$. Find the value of m .
8. If the height of a triangle is $(8 - 2b)$ and its base is $(b - 4)$, find the area of the triangle.



9. The number of vacancies in each course for college admissions in the year **2020** is given by the expression $(10x^2 + x + 22)$. If there are $(x + 2)$ courses available, find the maximum number of students that can take admission in **2020**.



10. If there are $(ax^2 + b)$ number of seats in one row of a bus and there are $3x$ number of rows, find the number of seats in the whole bus.



**When you learn math
in an interesting way,
you never forget.**



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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) $12x^2$	6) 9
2) $p^2x^4 + px^3 + p^2x^2$	7) 12
3) A) $-12x^3 - 16x^2 - 6x - 8$ B) $-z^5 - 7z^4 - 10z^3$	8) $8b - 16 - b^2$
4) $2x$	9) $10x^3 + 21x^2 + 24x + 44$
5) A) z^4y^8 B) $125p^6q^{12}$	10) $3ax^3 + 3bx$

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

