INOCENCIO SCHOOL Montessori Playschool
INOCENCIO INTEGRATED SCHOOL
"That every child finds joy and love for learning."
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FIRST SUMMATIVE EVALUATION
MATHEMATICS 7
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Name:_____ **Score:**_____
Grade and Section:_____ **Date**_____

Read the directions carefully. Review your answers before passing. God bless!

Test I.

A. Multiple choice. Read each sentence carefully. Write the letter of the correct answer on the line.

_____1. Which mathematical statement is correct?

a. $(x+3)(x+7) = (x^2+10x+10)$
b. $(3a+b)(a-2b) = 3a^2+5ab-2b^2$
c. $(2a+3b)^2 = 4a^2+12ab+9b^2$
d. $(3m^2-11)^2 = 9m^2-66m^2+121$

_____2. Which of the following is the product of $(x+1)(x-5)$?

a. $x^2 - 4x + 5$
b. $x^2 + 4x - 5$
c. $x^2 - 4x - 5$
d. $x^2 + 4x + 5$

_____3. Find the missing terms: $(x + __)(2x + __) = 2x^2 + 12x + 32$.

a. 6, 6
b. 14, 18
c. 8, 4
d. 2, 16

_____4. One of the factors of $10m^2 - 33m - 54$ is $5m + 6$. What is the other factor?

a. $2m - 9$
b. $2m + 9$
c. $2m - 6$
d. $2m + 6$

_____5. When you multiply $(c + 5)$ to $(c - 5)$, is it correct to write $c^2 + 25$?

a. Yes, because the product of the sum and difference of two terms is the sum of their squares.
b. Yes, because the product rule is correctly applied.
c. No, because the answer must be $c^2 - 25$.
d. No, because squaring a binomial always produces a trinomial product.

_____6. It tells how many times you will multiply the base by itself.
a. Base b. exponent c. radical

_____7. Value of your coefficient when there is no number written beside a variable.
a. -1 b. 0 c. 1

_____8. One method of simplifying polynomials when you need to multiply the polynomial to the terms inside the grouping symbol.
a. Multiplicative b. Distributive c. Additive

_____9. $(5x)(7x)=$ _____?
a. $35x^2$ b. $35x$ c. $12x^2$

_____10. $x(x + y)=$ _____?
a. $x^2 + y^2$ b. $x^2 + xy$ c. $x + y^2$

B. Matching Type. Match the column A that contains algebraic expressions to column B with their corresponding products.

_____11. $(2x)(3x)$	a. $15x$
_____12. $(3)(5x)$	b. $15x^3$
_____13. $(2xy)(4x)$	c. $24x^5$
_____14. $(5x^2)(3x)$	d. $3x^9y^{12}$
_____15. $(6x^3)(3x^2)$	e. $2x^6y^2$
_____16. $(12x^2)(2x^3)$	f. $6x^2$
_____17. $(3x^3y)(5xy^3)$	g. $8x^2y$
_____18. $(x^6y^6)(3x^3y^6)$	h. $18x^5$
_____19. $(5x^7)(2y^3)$	i. $15x^4y^4$
_____20. $(2x^5y)(xy)$	j. $10\ x^7y^3$

C. Identification. Identify the special products that are presented below.

21. $(5 + x)^3$ = _____
22. $(4x + 2)^2$ =_____
23. $(x + 60)\ (x - 60)$ = _____

24. $(4x + 3)(4x - 3) =$ _____

25. $(5x - 4)^2 =$ _____

D. Fill in the blanks. Complete the missing term of each square of binomials. Write your answer on the blank.

26. $(x - 3)^2 = x^2 - ___ + 9$

27. $(x + 2y)^2 = x^2 + 4xy + ___$

28. $(4a - b)^2 = ___ - 8ab + b^2$

29. $(c + 3d)^2 = ___ + 6cd + 9d^2$

30. $(5m - 3n)^2 = 25m^2 - ___ + 9n^2$