

Name: _____

Date Started: _____ Date Completed: _____ Score: _____

Learning Activity Sheet
Cube of a Binomial**A. Read the items carefully. Circle the letter of the correct answer.**

1. In finding the cube of a binomial, how will you determine the first term?
 - a. Cube of the second term
 - b. Cube of the middle term
 - c. Cube of the last term
 - d. Cube of the first term
2. What is the cube of the binomial $(3x + 4)^3$?
 - a. $27x^3 + 108x^2 + 144x + 64$
 - b. $27x^3 + 108x^2 - 144x + 64$
 - c. $27x^3 - 108x^2 + 144x + 64$
 - d. $27x^3 + 108x^2 + 144x - 64$
3. Multiply the cube of $(x + y)$ to $2x^3$, the result is?
 - a. $27x^3 + 108x^2 + 144x + 64$
 - b. $27x^3 + 108x^2 - 144x + 64$
 - c. $27x^3 - 108x^2 + 144x + 64$
 - d. $27x^3 + 108x^2 + 144x - 64$
4. In finding the cube of a binomial, the last term is equal to the cube of _____?
 - a. the first term
 - b. the last term
 - c. the second term
 - d. the last term
5. What is the cube of the binomial $(x + 5)^3$?
 - a. $x^3 + 15x^2 + 75x - 125$
 - b. $x^3 + 15x^2 - 75x + 125$
 - c. $x^3 + 15x^2 + 75x + 125$
 - d. $x^3 - 15x^2 + 75x + 125$

B. Find the product using the cube of a binomial pattern.

1. $(x + 2)^3 =$ _____
2. $(x - 5)^3 =$ _____
3. $(2x + 3y)^3 =$ _____
4. $(2x - y)^3 =$ _____
5. $(y + 3z)^3 =$ _____