



San Beda College Alabang

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Alabang, 1770 Muntinlupa City

INTEGRATED BASIC EDUCATION DEPARTMENT

DIAGNOSTIC TEST
Mathematics 8

Name: _____

Date: _____

Grade & Section: _____

Teacher: _____

Directions: Read each item carefully. Choose and write the **CAPITAL** letter of the correct answer on our answer sheet.

_____ 1) What do we call the mathematical process of finding the expressions which when multiplied will result to the given product?

- a. exponent
- b. factoring
- c. graphing
- d. multiplication

_____ 2) A rational expression is said to be undefined if:

- a. the numerator is zero.
- b. the numerator is not zero.
- c. the denominator is zero.
- d. the denominator is not zero.

_____ 3) Which is **NOT** true about perfect square trinomial?

- a. The first and last terms are perfect square.
- b. The middle term is twice the product of the square roots of the first and last terms.
- c. The middle term is the product of the square roots of the first and last terms.
- d. The last term is a positive number.

_____ 4) Which of the following is a difference of two squares?

- a. $x^2 + 4$
- b. $2x^2 - 9$
- c. $x^4y^3 - 100$
- d. $4x^8y^2 - 49$

_____ 5) When $\frac{2x}{x-1}$ and $\frac{2}{1-x}$ are added, the sum will be?

- a. 2
- b. $2x$
- c. $\frac{2x-2}{x-1}$
- d. $\frac{2x+2}{x-1}$

_____ 6) What is the factored form of $2x^2 - 6x - 20$?

- a. $2(x + 5)(x + 2)$
- b. $2(x - 5)(x + 2)$
- c. $2(x - 5)(x - 2)$
- d. $(2x + 5)(x - 2)$

_____ 7) What is the product when you multiply $\frac{4a^2}{5b}$ and $\frac{5b^2}{12ab}$?

- a. $\frac{ab}{3b}$
- b. $\frac{a}{3b}$
- c. $\frac{a}{3}$
- d. $\frac{ab}{3}$

