



Republic of the Philippines
Department of Education
Region I
Division Office - San Carlos City
MALACANANG NATIONAL HIGH SCHOOL
School Year 2016-2017



Name: _____ Gr. & Section: _____ Date: _____ Score: _____

DIAGNOSTIC TEST
GRADE 9 MATHEMATICS

General Direction: Observe honesty, orderliness and neatness of your work.
Strictly follow the instruction.

Part I: Instruction: Choose the best answer...

- An equation of second degree is called...
a. Linear b. Quadratic c. Cubic d. exponential
- What must be added to $x^2 - 10x$ to make it perfect square trinomial?
a. 5 b. -5 c. 25 d. -25
- What are the values of a , b and c in the equation $3x = x^2 - 1$?
a. $a = -1; b = -1; c = 3$ b. $a = 1; b = -3; c = -1$ c. $a = 1; b = 3; c = 1$ d. $a = -1; b = -3; c = -1$
- Determine the opening of the parabola of the function $f(x) = 3(x+2)^2$
a. upward b. downward c. to the right d. to the left
- What is the first step when solving a quadratic equation by completing the square?
a. take square root of both sides
b. get constant to one side and divide by the coefficient of the squared term
c. solve for x
d. take one half the coefficient of x , square it, and add it to both sides. (This is the second step)
- What is the product of the roots of the quadratic equation that has roots 2 and -3.
a. -6 b. -1 c. 5 d. 6
- What is the graph of a quadratic function?
a. Line b. cubic c. parabola d. bar graph
- Write the equation of the graph given $a=2$ and vertex $(1, 3)$.
a. $y = 2(x-1)^2 + 3$ b. $y = 2(x-1)^2 - 3$ c. $y = 2(x+1)^2 + 3$ d. $y = 2(x+1)^2 - 3$
- $b^2 - 4ac$ is used to
a. find the y -intercept c. find the number of x intercepts or nature of roots
b. determine the direction the graph opens d. determine the x -value of the vertex
- In $y = 4(x+3)^2 - 6$, when transform into standard form, the equation becomes
a. $y = x^2 + 3x - 6$ b. $y = 4x^2 + 24x + 36$ c. $y = 4x^2 + 6x - 3$ d. $y = 4x^2 + 24x + 30$
- Find the quadratic equation that has roots 2 and -3.
a. $y = x^2 - x - 6$ b. $y = 2x^2 + x + 6$ c. $y = x^2 + x - 6$ d. $y = x^2 - x + 6$
- The length of a garden is 5 longer than its width and the area is 14 m^2 . How long is the garden?
a. 9 m b. 7 m c. 5 m d. 2 m
- The discriminant of a quadratic equation is -8. What is the nature of its roots?
a. imaginary and equal b. imaginary and unequal c. real and equal d. real and unequal
- "The graph of $f(x) = x^2$ shifted 3 units upward", which of the following functions best describes the graph?
a. $f(x) = x^2 - 3$ b. $f(x) = x^2 + 3$ c. $f(x) = 3x^2$ d. $f(x) = -3x^2$
- Identify a possible graph for function f given by $f(x) = x^2 - 3$



- The statement "The longer the time a candle is lighted, the shorter it becomes", represents which variation?
a. direct variation b. direct square variation c. inverse variation d. joint variation

Grade 9 Diagnostic Test

United States. Office of Education

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the United States. Office of Education text.

Grade 9 Diagnostic Test:

The Top Books of the Year Grade 9 Diagnostic Test The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have enthralled audiences this year. The Must-Read : Colleen Hoovers "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and suspenseful novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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