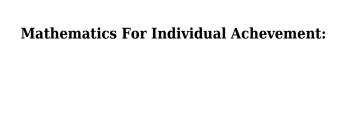# PRELIMINARY MATHEMATICS ACHIEVEMENT TEST
GRADE 8

I. NUMERICAL FACILITY

DIRECTIONS: Choose the letter with the correct answer. Shade the corresponding letter on your answer sheet.

1. In the expression $4x + 2y$, what is/are the same factor/s of each term?
   A) $2x$ B) $2y$ C) 2 D) x and y
2. Based on question no. 1, what are the factors of $4x + 2y$?
   A) $2(2x+y)$ B) $(x+y)$ C) $4(x+y)$ D) $2(2x+2y)$
3. In the expression k^3-64, what is its binomial factor?
   A) $(k + 4)$ B) $(k – 4)$ C) $(k – 8)$ D) $(k+8)$
4. Based on your answer in no.3, what is the other factor of k^3-64?
   A) $k^2 + 2k + 16$ B) $k^2 + 4k + 8$ C) $k^2 + 4k + 8$ D) $k^2 + 4k + 16$
5. Based on you answer in numbers 3 and 4, What are the factors of k^3-64?
   A) $(k+4)(k^2+ 4k -16)$ B) $(k-4)(k^2+ 4k+ 16)$
   C) $(k - 8)(k^2+ 2k +8)$ D) $(k+8)(k^2 - 2k + 8)$
6. Which of the following has a result of difference of two squares?
   A) $(a – b)(a – b)$ B) $(a – b)(x – y)$ C) $(a + b)a – b$ D) $(a + b)(a – b)$
7. What are the factors of $9x^2 - 49$?
   A) $(3x + 7)(3x - 7)$ B) $(2x + 6)(3x + 6)$
   C) $(4x - 7)(4x + 7)$ D) $(5x - 7)(2x + 3)$
8. What are the factors of $9x^2y^2 + 24x$?
   A) $3x(3xy^2 + 8)$ B) $2x(3xy^2 + 8)$ C) $3x(3y^2 + 8)$ D) $3x(3xy^2 - 8)$
9. What are the factors of $4m^2 - 49$?
   A) $(2m + 7)^2$ B) $(-2m + 7)(2m - 7)$
   C) $(2m - 7)^2$ D) $(2m + 7)(2m - 7)$
10. What are the factors of $x^3 – y^3$?
    A) $(x - y)^3$ B) $(x – y)(x^2 + xy + y^2)$
    C) $(x - y)(x^2 + y^2)$ D) $(x^2 – y^2)(x + y)$
11. What is the simplest form of ?
    A)   B)   C)   D)
12. What is the simplest form of
    A)   B)   C)   D)
13. What is the simplest form of ?
    A)   B)   C)   D)
14. What is the simplest form of
    A)   B)   C)   D)
15. What is the simplest form of
    A)   B)   C)   D)
16. What is the simplest form of
    A)   B)   C)   D)
17. What is the simplest form of
    A)   B)   C)   D)
18. What is the simplest form of
    A) a^2b B) 1 C)   D) $2ab^2$
19. What is the simplest form of
    A) x^3 B)   C) $x – 2x$ D)
20. What is the simplest form of
    A) m^4 B) $3m – 2$ C)   D)
21. What is the slope-intercept form of $5x+2y=4$?
    A) $y = + 2$ B) $y = 4x -$ C) $y = 4-5x$ D) $y = 5x-4$
22. What is the slope-intercept form of $x+3y=7$?
    A) $y =$ B) $y =$ C) $y = 7x+3$ D) $y = x+3$
23. What is the standard form: $y = -x+4$
    A) $x+y=4$ B) $-x+y=4$ C) $4+x=y$ D) $4-x=y$
24. What is the slope-intercept form of $14x+7y = 33$

1

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SA Dillow

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