COLEGIO BRITÁNICO INTERNACIONAL					
Group	:	7th grade "A"	**Academic Year**	:	2024 - 2025
Teacher	:	Ing. Diana Vaca	**Date**	:	19 – 03 - 2025
Student's Name	:		**Total**	:	____ / 10

1. What is a negative number?
A) A number less than zero
B) A number greater than zero
C) A fraction
D) A decimal

2. Which of the following is the smallest negative number?
A) -1
B) -10
C) -100
D) -0.5

3. What happens when you add a negative number to a positive number?
A) The result is always positive
B) The result is always negative
C) It depends on the values of the numbers
D) The result is always zero

4. What is the opposite of a negative number?
A) A decimal
B) A fraction
C) A positive number
D) Zero

5. What is the rule for adding two negative numbers?
A) Keep the negative sign and add the absolute values
B) Subtract the smaller number from the larger
C) The result is always zero
D) The answer is always positive

6. When subtracting 2 negative numbers, what happens?
A) The negative number turns positive
B) The answer is always negative
C) You subtract as usual
D) The answer is always zero

7. Which of the following is a correct statement?
A) -5 - (-3) = -8
B) -7 + (-2) = -9
C) 4 - (- 4) = 0
D) -6 - (-1) = -7

8. What happens when you multiply two negative numbers?
A) The result is negative
B) The result is positive
C) The result is zero
D) The answer is undefined

9. Which of the following is false?
A) (-8) × 3 = -24
B) (-6) × (-2) = -12
C) 5 × (-5) = -25
D) (-4) × (-3) = 12

10. When dividing a negative number by a positive number, the result is:
A) Always positive
B) Always negative
C) Always zero
D) Always a fraction

11. Which of these follows if correct?
A) 5 + 3 × 2 = 16
B) (5 + 3) × 2 = 16
C) 4 + (3 × 2) = 11
D) 5 × 3 + 2 = 21

12. In PEMDAS, which operation is performed first?
A) Addition
B) Multiplication
C) Division
D) Subtraction

13. The exponent in a power tells you:
A) How many times to add the base
B) How many times to multiply the base by itself
C) How many times to subtract the base
D) The square root of the base

14. Which of these represents 3 to the power of 4?
A) 3 × 4
B) 4 × 4 × 4
C) 3 × 3 × 3 × 3
D) 3 + 3 + 3 + 3

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15. What is the square root of 81?
A) 8
B) 9
C) 10
D) 12

16. Which of the following is an ordered pair?
A) (x, y)
B) x + y
C) x ÷ y
D) $x^2 + y^2$

17. What does the first number in an ordered pair represent?
A) The y-coordinate
B) The sum of the numbers
C) The x-coordinate
D) The distance from the origin

18. The Cartesian plane is divided into:
A) 2 quadrants
B) 3 quadrants
C) 4 quadrants
D) 5 quadrants

19. In which quadrant is the point (-3, 5) located?
A) Quadrant I
B) Quadrant II
C) Quadrant III
D) Quadrant IV

20. The x-axis is:
A) The vertical axis
B) The horizontal axis
C) A diagonal line
D) A curve

21. What is a unitary set?
A) A set with no elements
B) A set with exactly one element
C) A set with infinite elements
D) A set with only even numbers

22. What is the symbol for an empty set?
A) Ø
B) {}
C) ()
D) []

23. If A = {1, 2, 3} and B = {3, 4, 5}, what is A ∪ B?
A) {1, 2, 3, 4, 5}
B) {3}
C) {1, 2, 4, 5}
D) {1, 2}

24. The intersection of two sets contains:
A) All elements from both sets
B) Only the elements that appear in both sets
C) The elements that appear in either set
D) The elements that appear in neither set

25. If A = {2, 4, 6, 8} and B = {4, 6, 8, 10}, what is A ∩ B?
A) {2, 4, 6, 8, 10}
B) {4, 6, 8}
C) {2, 10}
D) {}

26. What is the universal set?
A) The set containing all elements under consideration
B) The set with only one element
C) The set with no elements
D) The intersection of two sets

27. A set with only one element is called:
A) A finite set
B) A singleton set
C) A universal set
D) An infinite set

28. If A = {a, b, c} and B = {b, c, d}, what is A ∩ B?
A) {a, b, c, d}
B) {b, c}
C) {a, d}
D) {}

29. Which of the following represents the union of sets A and B?
A) A ∪ B
B) A ∩ B
C) A - B
D) B – A

30. A subset is:
A) A set that contains all elements of another set
B) A set with no elements
C) A set that has only even numbers
D) A set that contains some or all elements of another set

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