



FIRST SUMMATIVE EVALUATION
MATHEMATICS 10
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Name: _____ Rating: _____/50
Grade and Section: _____ Date: _____

TEST I.

A. Write TRUE if the statement is correct and FALSE if it is incorrect.

- ____ 1. 1.625 is an irrational number.
- ____ 2. 9/11 is not a whole number but it is a rational number.
- ____ 3. Zero is not an integer.
- ____ 4. 3.31662479... is an irrational number.
- ____ 5. 0.333... is a rational number.
- ____ 6. $2 \in \{1, 3, 5\}$
- ____ 7. All irrational numbers are real numbers.
- ____ 8. The intersection between rational and irrational sets of numbers is zero
- ____ 9. $3 \in \{1, 2, 3\}$
- ____ 10. The quotient of any number by zero is zero.

B. Determine which properties of real numbers are applied in each statement.

The properties of real numbers are:

- a. Commutative property of multiplication
- b. Commutative property of addition
- c. Associative property of addition
- d. Associative property of multiplication
- e. Additive identity
- f. Additive inverse
- g. Multiplicative identity
- h. Multiplicative inverse
- i. Distributive property

_____ 11. $2x(2 - y) = 4x - 4y$

_____ 12. $(2 \cdot 5) \cdot 9 = (5 \cdot 2) \cdot 9$

_____ 13. $121x \cdot 1 = 121x$

_____ 14. $131 + 0 = 131$

_____ 15. $\frac{1}{41} \cdot 41 = 1$

_____ 16. $45 + 54 = 54 + 45$

_____ 17. $12 \cdot \frac{1}{12} = 1$

_____ 18. $7 + (-7) = 0$

_____ 19. $(4 + 5) + 7 = (5 + 4) + 7$

_____ 20. $(4 \cdot 7) \cdot 9 = 4 \cdot (7 \cdot 9)$

_____ 21. $-\frac{7}{5} \cdot (-\frac{5}{7}) = 1$

_____ 22. $143 + 0 = 143$

_____ 23. $5 \cdot (6 \cdot 9) = 5 \cdot (9 \cdot 6)$

_____ 24. $14(23 + 34) = 14 \cdot 23 + 14 \cdot 43$

_____ 25. $125 \cdot 1 = 125$

C. FILL IN THE BLANKS. Fill in the blanks with the word *always*, *sometimes*, or *never* to make a true statement.

26. The difference of two negative numbers is _____ a negative number.

27. The sum of two negative numbers is _____ a negative number.

28. The sum of a positive number and a negative number is _____ zero.

29. The sum of two positive numbers is _____ zero.

30. The difference between a positive number and zero is _____ a negative number.

"Integrity is telling myself the truth. And honesty is telling the truth to other people."

- Spencer Johnson, American Author

*****END OF EXAM*****