**Show all work needed to answer each question. Put your final answer in the box. Good luck 😊**

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| 1. Which is the smallest set of real numbers that contains the value below?  A. Irrational Numbers  B. Rational Numbers  C. Natural Numbers  D. Integers | 2. Which set contains the value below?  A. Irrational Numbers  B. Natural Numbers  C. Rational Numbers  D. Integers |
| 3. The set below only contains which types of numbers?  A. Irrational Numbers  B. Rational Numbers  C. Integers  D. Natural Numbers | 4. Select all sets to which the value below belongs.  Real Numbers  Irrational Numbers  Rational Numbers  Integers  Whole Numbers  Natural Numbers |
| 5. Which of the following is *true* regarding number sets?  A. All integers are whole numbers.  B. All irrational numbers are real numbers  C. All real numbers are integers.  D. All rational numbers are natural numbers. | 6. Which property justifies the statement below?  A. Associative Property  B. Transitive Property  C. Distributive Property  D. Commutative Property |

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| 7. Simplify the expression below: | 8. Evaluate the expression below if , , and . |
| 9. Evaluate the expression below if and . | 10. Evaluate the expression below if and  . |
| 11. Translate the statement below:  **“One less than twice a number.”**  A.  B.  C.  D. | 12. Translate the statement below:  **“Five times the difference of a number and 3 is 17.”**  A.  B.  C.  D. |
| 13. Translate the statement below:  **“A number is no more than 50.”**  A.  B.  C.  D. | 14. Translate the statement below:  **“Your grade must be at least 70 to pass this class.”**  A.  B.  C.  D. |

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| 15. Simplify the expression below:  A.  B.  C.  D. | 16. Simplify the expression below:  A.  B.  C.  D. |
| 17. Simplify the expression below completely. | 18. Simplify the expression below completely. |
| 19. Give the perimeter of the rectangle below in simplest form. | 20. Identify the first step to solve the equation below:  A. Add 4  B. Subtract 7  C. Multiply by  D. Add 1 |
| 21. Solve the equation below: | 22. Solve the equation below: |