Algebra Chapter 1 Practice Test 1

Name: _____

Write an algebraic expression or equation for what is given.

_____ 1. the sum of a number and ten

_____ 2. six less a number

_____ 3. a number increased by one

_____ 4. the product of three and a number

_____ 5. twenty taken away from a number

_____ 6. The sum of a number and four is equal to the product of that number and two.

_____ 7. A number taken away from fifteen equals the sum of that number and two.

Evaluate the expressions. Circle your final answer and show your work!

8. $25 - 4 \cdot 5 - 3 \cdot 2$

9. $10(3 - 2)^2 - 4 \cdot 2$

10. $2(12 - 10 \div 2) \div 2 + 1$

On 11-13, let a = 10, b = 5, c = 2, and y = 1. Evaluate each. Only use a calculator to perform an operation on two numbers, not more.

11. a^2-bc

12. $(ab - 40)^2$

13. $2bcy^2$ - ac

Simplify each expression. Use the distributive property where appropriate.

_____ 14. $10n - 4 + 2n - 6$

_____ 15. $n + n + 2 + 7 + n$

_____ 16. $3a + 2b + 5 + 4a + b - 2$

_____ 17. $4(2n - 3) + 2(2n - 1)$

_____ 18. $4(2n + 3) + 5n + 2$

_____ 19. $3(2n + 1) + 5(2n + 2)$

_____ 20. $2(5n - 3) + 2n - 4 + 2(3n + 1)$

_____ 21. $4(2n + 3a + 4) + 2(3n + 2a + 5)$

_____ 22. $4ab^2 + 2ab + 6ab^3 + 5ab + 3ab^3 + 11ab^2$

_____ 23. $5(2x - 1) - 3(2x - 1)$ [Notice you must distribute a -3 through.]

_____ 24. $3x^3 - 2x^2 - x - 5x^2 - 7x^3$

Classify the following as an expression or equation.

_____ 25. $34 - x$

_____ 26. $5x - 4 = 1$

_____ 27. $5x^3 - 2x - 4$

_____ 28. $8x = 12$

_____ 29. $6x - 8y + 9$

_____ 30. $2 = 1 + 1$