Name:_____ Date:_____ Block:_____

UNIT 1: REVIEW 2

Evaluate.

1. $2[4(9 - 7) + 1]$

2. $[(16 - 4)^2 \div (8 + 4)]$

3. $(-4 + 18) - (-9 - 22)$

4. $-2 \bullet -15 \bullet 3 \div (-5)$

5. $12(10 - 3) + 5(14 - 6)^2$

6. $(6 \bullet 3 - 12)^2 \div 9 + 7$

Evaluate each expression if $x = -4$ $y = 3$ $z = -6$

7. $x - z - y$

8. $y - z + x$

9. $2x + 3y$

10. $\dfrac{z + x}{z - x}$

11. $(x + y) - 8$

12. $4z + 4z$

13. $| x - y | + (-4)$

14. $-| y + x | - z$

Translate each phrase into an algebraic expression.

15. five more than the product of six and a number

16. 8 centimeters shorter than Mary's height (h)

17. two times the sum of three and some number

18. a number less than 20

19. A phone company charges $5 per month plus $0.10 per minute for long distance calls. Write an expression for the total monthly cost after m minutes.

20. 2 times the quotient of a number and 10

Simplify.

21. $5w + 7w - 2w + 3x^2 - 15$

22. $2x^4 + 3x + 12 + 8x^4 - x - 7$

23. $15x^3 + 4y^2 + 18 + 2y^2 - 7x^3 - 10 - 8x^3$

24. $12m + (-7m) - 45m$

25. $(-3)(12)(-n)$

26. $-133x + (-212x)$

27. $49y - 87y$

Translate into an algebraic expression.

28. the sum of m and 8

29. 4 less than x

30. 26 increased by 12 times a number

31. the product of h and 3 increased by 20

32. take away 32 from the product of 6 and a number

33. A chicken patty has 13 grams of protein in it. Write an expression for the number of grams of protein in x number of chicken patties.