Student Name: A1-Review

Period: Date:

Assessment 1 Review

Write an algebraic expression for each verbal expression.

1) ten increased by four times a number

_____

2) the sum of two and six times a number

_____

Write a verbal expression for each algebraic expression.

3) $5n^2 - 6$

_____

4) $3e + 2e^2$

_____

Translate each sentence into an equation, inequality, or formula.

5) A number times two minus six is the same as another number divided by three.

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6) The area *A* of a rhombus is half the product of the lengths of the diagonals *a* and *b*.

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7) The quotient of a number and five increased by six is at most twelve.

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8) Nine times a number is less than eight times that number decreased by two.

_____

Translate each equation/inequality into a verbal sentence.

9) $2x^2 + 3 = 21$

_____

10) $\frac{n}{-6} = 2n + 1$

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11) $z - 4 > 20$

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12) $-2 \leq 9w - 4$

Evaluate each expression.

13) $5(9+3) - 3 \bullet 4$

14) $16 \div 2 \bullet 5 \bullet 3 \div 6$

15) $25 - \frac{1}{3}(18+9)$

Evaluate each expression if a=2, b=5, x=4, and n=10.

16) $bx + an$

17) $(2x)^2 + an - 5b$

18) $\left[a + 8(b-2)\right]^2 \div 4$

Identify the terms, variables, coefficients, and constants of the given expression. ***Reminder, use the box method, if necessary!***

19) $-4x^3 + 2x^2 - 3x - 9$

Terms:_____

Variables:_____

Coefficients:_____

Constants:_____

20) $\frac{b}{5} + 2xy - 13$

Terms:_____

Variables:_____

Coefficients:_____

Constants:_____

Write an algebraic expression to describe the situation below. Then, identify the terms, variables, coefficients, and constants.

21)The Conkle family went to see the new Stephen King movie, *It*. There were two adults and all of their four children at the movies. They spent $85.00 on snacks. If x represents the price of an adult ticket and y represents the price of a children's ticket, write an expressions that describes the amount of money they spent going to the movies. Then identify the terms, variables, coefficients, and constants.

Expression:_____

Terms:_____

Variables:_____

Coefficients:_____

Constants:_____