Name:			
_	Date:		

Unit 1 Review

- I. Write the expression
 - 1. Triple a number subtracted from ten.
 - 2. The difference of twice a number and thirteen.
 - 3. Eight times a number plus five.
 - 4. The quotient of a number and one
 - 5. The sum of quadruple a number and negative four
- II. Simplify the expression

6.
$$-3(2x-5)$$

7.
$$\frac{30x-10}{5}$$

8.
$$2(x-4)-6+4x$$

9.
$$6x(4x + 3)$$

10.
$$x(4x + 11)$$

- III. Write and Simplify the Expressions
 - 11. A fourth of the difference of twelve and eight times a number.
 - 12. Nine times a number subtracted from the same number
 - 13. Ten subtracted the sum of triple a number and the same number
 - 14. The sum of double a number and six is divided by two
 - 15. Seven times the difference of a number and nine.

IV.	ath Magic Trick		
	16. Create the expression from the following directions AND simplify		
	a. Write down your age:		
	b. Multiply by 25:		
	c. Add today's date (only the day):		
	d. Multiply by 4:		
	e. Add your shoe size (If it's a half size round to the whole number):		
	f. Subtract four times today's date:		
	g. Answer:		
	h. Simplified Answer:		

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V.	Writing Equations
	17. Find the cost of school lunches (adult and student) for three different area schools Then create a table of values. Also find the number of students and teachers at each school. Write an expression based on the table for each of the following: Schools Student Adult A PHS \$3.00 \$4.00 B SCHS \$5.50 \$6.50 C MHS \$7.25 \$8.00 A. Cost of feeding 25 students and 10 adults at PHS, SCHS, and MHS:
	a. PHS:
	b. SCHS:
	c. MHS:
	B. Cost of feeding 61 adults and 75 students at PHS, SCHS, and MHS:
	a. PHS:
	b. SCHS:
	c. MHS:
	C. Create an equation for feeding each of the schools' students and teachers:
	a. PHS:
	b. SCHS
	c. MHS:

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VI. Solving Real Word Problems

- 18. Greg went to the Apple Store to purchase gifts for his family. He bought two phone cases for \$23.50 each, three Apple TVs for \$45.00 each and one printer for \$78.98. If sales tax is 9%, what was the total purchase price?
- 19. Ms. Elliott went shopping at Bloomingdales. She bought two shirts for \$29.90 a piece, one skirt for \$37.89 and three pairs of boots on sale for \$51.25. If sales tax is 7.5%, what was her total purchase price?

VII. Distributive Property and Factoring

i. Distributive Property

20.
$$2x(4x+5)$$

$$21.5(x-17)+11$$

$$22.\ 13x + 7 - 11x + 17$$

23.
$$28r + 3(2r + 15)$$

$$24. -(10x - 4) + 14$$

ii. Factoring

26.
$$14x+7$$

$$27.20x+25x$$