Name:______ Date:_____

Homework sheet: Alg2H

PEMDAS: (page 41)

Please Excuse My Dear Aunt Sally ".
Paventheses = Exponents = Multiply / Divide = Add/Subtra

1. Board examples:

$$0 -5^2 + 3.5 = -25 + 15 = -10$$

(3)
$$2.3^2 + 4.5 - (2-7) = 2.9 + 20 - (-5) = 18 + 20 + 5 = 43$$

(Book1 19**) Compute each of the following. For some of these, there are two 2. ways to compute the result. Explain.

a.
$$3(2+3+5)$$

b.
$$\frac{1}{3}(9+6-3)$$

c.
$$(9+6-3)\div3$$

3. (Book1 8**) Kelly telephoned Brook about a homework problem. Kelly said, "Four plus three times two is 14, isn't it?" Brook replied, "No, it's 10." Did someone make a mistake? Can you explain where these two answers came from?

$$k \text{ elly:}$$
 $(4+3)\cdot \lambda = 14$

4. Solve (problems are based on www.chilimath.com):

a.
$$2^4 - 5(10 - 4^2 \div 2) + (30 - 3^3)$$

 $16 - 5(10 - 16) + (30 - 27) =$

b.
$$(32 - 3^3 \div 9 \times 10)^5 - 4^2 \div 8 + 3^2$$

$$(32 - \frac{27}{9} \times 10)^5 - \frac{16}{8} + 9 =$$

c.
$$(-3-16 \div 2^4-1)^2-1(-8 \div 4)^3$$

$$\left(-3 - \frac{16}{16} - 1\right)^{2} - 1\left(-2\right)^{3} =$$

$$= (-5)^2 - 1(-8) = 25 + 8 = \boxed{33}$$

d.
$$(27-27 \div 3^2-26)^2 + (-7 \div 7)^3 \times (-1)$$

$$(27 - \frac{27}{9} - 26)^2 + (-1)^3 \times (-1)^2$$