## Summer Assignment for incoming 8<sup>th</sup>-Grade Students – Greenwood Lakes Middle School

Name:

Command of the topics in this assignment are important to be successful in Pre-Algebra. These problems should all be completed correctly (not attempted), and <u>all work must be shown</u>. It is your responsibility to know and understand these topics before the start of the school year. There is **NO CALCULATOR** to be used on this assignment. This assignment will be due the week of August 10<sup>th</sup>; a specific date will be given by your teacher.

## ALL work MUST be shown.

Simplify.

1) 4w + 5n - 8 + 2w - 4n + 92) 5(3r - 4) + 6r + 283)  $3m^2 + 5m - m^2 + m + 3$ 

Solve the equation.

- 4) 14 = d 6 5) 5 + c = 10 6) 5m = 11 7)  $\frac{f}{6} = 2$
- 8) -8 = 5z + 16 9)  $\frac{f}{6} 2 = -14$  10) -2r + 5 = 13 11)  $-4m + 10 \le 2$



Classify each triangle below by its angle measures (acute, right, obtuse) and by its side lengths (scalene, equilateral, isosceles).



28) A family of 4 paid \$72.48 to attend a movie. Given that each ticket costs the same amount, how much did it cost per person?

29) It took Malia  $1\frac{1}{2}$  hours to run  $6\frac{3}{4}$  miles. How many miles does she run per hour?

Evaluate the expression when a = 3, b = -2, c = 4. 30) bc - a  $31)\frac{c}{-2} - a^2$   $32) -a^4$  33) 5c - b + a

Expand and evaluate the following. Example:  $2^3 = 2 \times 2 \times 2 = 8$ 

34)  $6^2$  35)  $5^3$  36)  $(\frac{2}{5})^3$  37)  $(\frac{7}{9})^4$ 

Write an expression.

38) 6 less than the sum of 4 and n.

39) 8 more than the quotient of c and 3.