Welcome to Norwalk High School!

You are about to embark on the next journey in your educational career. We are looking forward to a year-long adventure with you in your Intensified Algebra course.

This packet contains topics that you are expected to know prior to entering your course. This packet should be completed independently. You are to complete this assignment in pencil and show all work.

If you are struggling with any of this material, you are encouraged to check out helpful videos online using websites such as Khan Academy, MathisFun, PurpleMath, etc.

**There will be an assessment on this material during your first class.**

For the upcoming school year, you will be required to bring the following supplies to class every day:

1. TI-84 Plus or TI-84 CE graphing calculator
2. $1\frac{1}{2}$-inch 3-ring binder (dividers optional)
3. Pencil (#2 or mechanical)
4. Loose leaf paper

Enjoy the rest of summer and see you soon!

Please have your parent/guardian read and sign this form as well. The signatures below will indicate to your teacher that you have read and understand our expectations of you upon entering this class.

Student Name (Print): ___________________________ Student Signature: _______________________________________

Parent/Guardian Signature ____________________________________________

Date: _________________
Simplifying Expressions:
1) \(-4 + 9\)  
2) \(7 - 10\)  
3) \(20 - (-6)\)  
4) \(-5 - 9\)  
5) \((-5)(-3)\)  
6) \(-\frac{20}{4}\)  
7) \((16)(4)\)  
8) \(-\frac{24}{36}\)

Order of Operations: Remember PEMDAS.
1) \(6 + 4 - 2(3)\)  
2) \(18 - 30 \div 5\)  
3) \((12 - 4) \div -2\)  
4) \(29 - 3 \cdot 9 + 4\)  
5) \(-6(2 - 9)\)  
6) \((9 - 4)^2\)  
7) \(50 - (17 + 8)\)  
8) \(4(1 - 3)^2 - 16\)

Simplify Each Expression: Combine like terms when possible.
1) \(6x + 5x\)  
2) \(3(b + 9)\)  
3) \(5(2x - 3)\)  
4) \(25x + 7 - 13x\)  
5) \(x - 7x\)  
6) \(3x + 1 - 2x + 8\)  
7) \(-3(4x + 9)\)  
8) \(\frac{1}{2}(6p - 12)\)
Writing Expressions:
1) The sum of thirty and a number.
2) A number minus five.
3) Three times a number plus two.
4) 25 divided by a number.
5) Half of a number.
6) Twice a number decreased by fifteen.
7) Five less than twice a number.
8) The quotient of a number and 12.

Solve the equation: Show your work.
1) \( x + 6 = 15 \)  
2) \( x - 12 = 4 \)  
3) \( 3x = -21 \)  
4) \( \frac{x}{4} = -2 \)

Evaluate the expression: Show your work.
Given \( a = 2, b = -3, \text{ and } c = 4 \) find the following:
1) \( b - a \)  
2) \( abc \)  
3) \( \frac{ab}{c} \)  
4) \( b - a^2 \)

Plot and label each point on the given graph.
1) A - (1, 2)  
2) B - (4, -3)  
3) C - (-1, -5)  
4) D - (-2, 0)  
5) E - (0, 8)  
6) F - (-3, 9)
Area and Perimeter

Considering the figure to the right, calculate the following:

1) Perimeter –

2) Area –
   *one “box” represents 1 square unit

3) Write the coordinates for the following points:   
   A: _________   B: _________   
   C: _________   D: _________   
   E: _________   F: _________   
   G: _________   H: _________

Numeracy Skills:

1) List the factors of 64.   2) List the multiples of 3 between 0 and 28.

3) List the factors of 24.   4) Using your lists from #1 and #3, identify the Greatest Common Factor of 64 and 24.