Name: _____ Date: _____ Block: _____

Algebra 1- Week 6 Homework

Monday- (Algebra Nation: Section 1: Expressions, Topic 1: Using Expressions to Represent Real World Situations)
Translate each verbal phrase into an algebraic expression.

1. A number increased by a different number

2. Three times the quotient of a number and 5

3. Alicia draws a rectangle on her paper. The length of the rectangle is twice the length of its width. Write an expression that represents the perimeter of the figure.

Tuesday- (Algebra Nation: Section 1: Expressions, Topic 2: Understanding Polynomial Expressions)
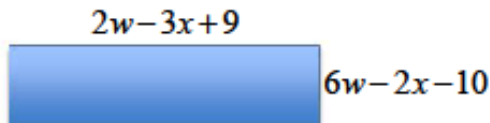
1. Identify the coefficient, variable, constant, and numbers of terms in the expression below:

$$x - 53 - 4x - w + 6x + 8$$

Terms: _____   Coefficients: _____

Constants: _____   Variables: _____

2. Write an expression that shows the perimeter of the figure below.

$$2w - 3x + 9$$

$$6w - 2x - 10$$

Wednesday- (Algebra Nation: Section 2: Equations and Inequalities, Topic 1, 2, and 3: Equations: True or False?, Identifying Properties When Solving Equations, and Solving Equations)
Add/Subtract One Step Equations

Problem	Show Your Work	Answer	Check Your Answer
1. k – 13 = 18			

2. -6 + x = 5			
3. z – 5 = 19			
4. 10 – s = 4			

Multiply/Divide One Step Equations

Problem	Show Your Work	Answer	Check Your Answer
1. -x = 18			
2. -2x = 30			
3. $\dfrac{x}{7} = 3$			
4. $\dfrac{2}{3}x = 4$			

Thursday- (Algebra Nation: Section 2: Equations and Inequalities, Topic 1, 2, and 3: Equations: True or False?, Identifying Properties When Solving Equations, and Solving Equations)

Two-Step Equations

Problem	Show Your Work	Answer	Check Your Answer
1. $2x + 6 = 18$			

2. $3 - 5g = 33$			
3. $4 + \frac{w}{6} = 10$			
4. $\frac{4}{5}s + 1 = 9$			

Friday- (Algebra Nation: Section 1: Expressions, Topic 3: Algebraic Expressions Using the Distributive Property)
Distributive Property

Problem	Answer
1. Simplify: $3(x + 6 + 2w)$	
2. Simplify: $10 - 3(x + 9 - 10x)$	

Problem	Show Your Work	Answer	Check your answer
3. Solve for x: $3(x + 2) = 9$			
4. Solve for x: $-4(x + 5) = 16$			