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)**

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**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 |  |  |  |
| 1. -6 + x = 5 |  |  |  |
| 1. z – 5 = 19 |  |  |  |
| 1. 10 – s = 4 |  |  |  |

***Multiply/Divide One Step Equations***

|  |  |  |  |
| --- | --- | --- | --- |
| Problem | Show Your Work | Answer | Check Your Answer |
| 1. -x = 18 |  |  |  |
| 1. -2x = 30 |  |  |  |
|  |  |  |  |
|  |  |  |  |

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

***Distributive Property***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Problem** | | **Answer** | | |
| **1. Simplify:** | |  | | |
| **2. Simplify:** | |  | | |
| **Problem** | **Show Your Work** | | **Answer** | **Check your answer** |
| **3. Solve for x:** |  | |  |  |
| **4. Solve for x:** |  | |  |  |