**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_Hour: \_\_\_\_\_**

 **STATIONS: Algebraic Expressions** HW # \_21\_\_

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| --- | --- |
| **Station #1****1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_****2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_****3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | **Station #2****1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_****2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
| **Station #3.** **1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_****2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_****3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | **Station #4****1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_****2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_****3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
| **Station #5** **1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_****2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  | **Station #6****1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_****2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_****3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_****4**. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |

**Station #1**

**Simplify the Expression:**

1. $4h-8 h$

2. $6.4r-7-2.9r$

3. $2m-m-7m$

**Station #2**

**You buy the same number of brushes, rollers, and paint cans.**

**1. Write and interpret an expression in simplest form that represents the total amount of money you spend on painting supplies.**

**2. How much do you spend when you buy one set of supplies for each of 3 painters?**



**Station #3**

 **Find the sum.**

 **1.** $\left(c-4\right)+\left(3c+9\right)$

 **2.** $\left(-2.1m-5\right)+\left(3m-7\right)$

 **3.** $\left(5.7m+1.9\right)+(2.6m+4.1)$

**Station #4**

**Find the difference.**

 **1.** $\left(x-1\right)-\left(3x+2\right)$

 **2.** $\left(\frac{1}{2}h+7\right)-\left(\frac{3}{2}h+9\right)$

 **3.** $\left(6d-2\right)-(3d+2)$

**Station #5**

**1. You class project involves recycling aluminum cans. After x weeks, your class has**$ (13x + 50) $ **aluminum cans. The class goal is to collect** $(80x + 120) $**aluminum cans. How many more aluminum cans does your class need to collect.**

 **2. A rectangle has a width of** $(x-4) $**and a height of** $(2x+6)$**. Find the perimeter of the rectangle.**

**Station #6**

**Greenland has a population of *x* people. Barbados has a population of about 4500 more than 5 times the population of Greenland.**

**1. Write an expression for Greenland’s population.**

**2. Write an expression Barbados’s population.**

**3. Which country has more people?**

**4. Find and interpret the difference in the populations of these two countries.**