Simplifying Expressions and GCF/LCM Review Stations

Name _____

Station 1: Distributive Property

1. **Expand** $8(5x-3)$	2. **Factor out the GCF** $18x+30y$
2. **Expand** $14(3+m)$	4. **Factor out the GCF** $20-40z$
3. **Expand** $7(2+4a-9b)$	6. **Factor out the GCF** $12x+20y-24z$

Station 2: Exponents and Order of Operations

1. **Part A:** **Part B:**	2. **Part A:** **Part B:**
3. **Evaluate** $5^2 - 8 \bullet 3$	4. **Evaluate** $33 \div \left(11 - 2^3\right) + 8$
5. **For** $x = 2$ **and** $y = 6$**, Evaluate** $8x^3 - y^2 \div \left(2x\right)$	5. **For** $x = 9$ **and** $y = 6$**, Evaluate** $\dfrac{3x - y}{y + 1}$

Station 3: Combining Like Terms and Equivalent Expressions

1. **Simplify**

$$4x+5x-9-3x$$

2. **Simplify**

$$3(3a-b)+4b$$

3. **Simplify**

$$6(5m)+4(9m)$$

4. **Equivalent? Explain or Show Work**

$4x+6x$ and $10x^2$

True **False**

5. **Equivalent? Explain or Show Work**

$x+y+x+y$ and $2(x+y)$

True **False**

6. **Equivalent? Explain or Show Work**

$4x-5y$ and $5y-4x$

True **False**

7. **Equivalent? Explain or Show Work**

$9x+2y$ and $11xy$

True **False**

Station 4: Combining Like Terms and Equivalent Expressions

1. **Find the LCM of 9 and 15**	2. **Find the GCF of 84 and 36**
3. Matthew goes hiking every 4 days and swimming every 5 days. He did both kinds of exercise today. How many days from now will he go both hiking and swimming again?	4. Rosa is making a game board that is 24 inches by 32 inches. She wants to use square tiles. What is the largest side length for a tile she can use?
5. Two bikers are riding a circular path. The first rider completes a round in 12 minutes. The second rider completes a round in 18 minutes. If they both started at the same place and time and go in the same direction, after how many minutes will they meet again at the starting point?	6. Mrs. Evans has 216 crayons and 96 pieces of paper to give to her students. What is the largest number of students she can have in her class so that each student gets equal number of crayons and equal number of pieces of paper.