Block Algebra1 Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Order of Operations Assignment

**Directions:** Use the order of operations to simplify each expression. Show work (steps) for credit.

1. 16 – (10 + 5) $÷$ 3 2. 5 $∙$ 22 + 32 3. 23 + 3(5-2)2

4. 24 $÷$ 2 – 3 $∙$ 4 5. $\frac{5^{2}+3}{3^{2}-2}$ 6. $\frac{9-(4-3)^{4}}{6-3+1}$

7. $\frac{2^{3}+4∙3}{3∙2+4}$ 8. $\frac{4[20÷\left(3+2\right)]}{2^{3}-4}$

**Directions:** Evaluate and simplify.

Let a = 4 and b = -10

9. 5a + 8b 10. -2(3a + 6b) 11. $\frac{8(a+b)}{-4}$

Let x = 0.5 and y = 2

12. $(\frac{x}{y})^{2}$ 13. 6x – y 14. 12(xy – 3)

\*\*Answer self-reflection questions on the back\*\*

On a scale of 1-4 (1 being the least, 4 being the most), rate yourself on each of the following statements:

 My effort during this lesson in class \_\_\_\_\_\_\_

 My effort on this assignment \_\_\_\_\_\_\_

 My understanding of order of operations \_\_\_\_\_\_\_\_

 My understanding of substituting and evaluating \_\_\_\_\_\_\_\_\_

 My confidence level of how successful I can be with order of operations \_\_\_\_\_\_\_

 My teachers’ explanation of order of operations \_\_\_\_\_\_\_\_\_

 My confidence level of how successful I can be with substituting and evaluating \_\_\_\_\_\_\_\_

 My teachers’ explanation of substituting and evaluating \_\_\_\_\_\_\_\_