Math I: Unit 1 Study Guide

Student Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**OBJ. 1: Solving Multi-step Equations/Variables on Both Sides Equations**

|  |  |
| --- | --- |
| **Objective** | **Score** |
| 1 | A B NY |
| 2 | A B NY |
| 3 | A B NY |
| 4 | A B NY |
| 5 | A B NY |

ANSWERS:

|  |  |  |
| --- | --- | --- |
| **1.** | | |
| **2.** | | |
| **3.** | | |
| **4.** | | |
| **4/4 = 100** | **3/4 = 80** | **0-2 = NY** |
| **5.** | | |
| **6.** | | |
| **7.** | | |
| **8.** | | |
| **4/4 = 100** | **3/4 = 80** | **0-2 = NY** |
| **9.** | | |
| **10.** | | |
| **11.** | | |
| **12.** | | |
| **4/4 = 100** | **3/4 = 80** | **0-2 = NY** |
| **13.** | | |
| **14.** | | |
| **15.** | | |
| **16.** | | |
| **4/4 = 100** | **3/4 = 80** | **0-2 = NY** |
| **17.** | | |
| **18.** | | |
| **19.** | | |
| **20.** | | |
| **4/4 = 100** | **3/4 = 80** | **0-2 = NY** |

1. Solve for x; 6(x + 2) – 5x = 61
2. Solve for x;

3. Solve for x;

A. x = 12 C. Infinitely Many Solutions

B. No solution D. x = 0

4. . Solve for x;

**OBJ. 2: Inequalities**

5. Solve: -2(x + 1) >12

6. Solve: 5x – 4(x – 1) > -5x + 40

7. Would 3 be a solution to the inequality above?

8. Solve:

**OBJ. 3: Literal Equations**

9. Given: ; solve for t

10. Standard form of a linear equation is 4x-2y=12*;* solve for **y**

11. Given: A ; solve for B

12. Area of a trapezoid can be found by: ; solve for h

**OBJ. 4: Word Problems**

13. The length of a rectangle is 4 inches less than twice its width. The perimeter of the rectangle is 64 inches. What are the dimensions of the rectangle?

14. Jack and Jill have a combined age of 49. Jack’s age is 4 more than 4 times Jill’s age. How old is Jill?

15. Find 3 consecutive even integers, such that twice the smallest integer is 12 more than the largest integer.

16. Find the largest of three consecutive integers whose sum is 96.

**OBJ. 5: Calculator Inactive: Math I Unit 1 SG**

17. Find the largest of three consecutive integers whose sum is 51.

18. Solve for x; 

19. The formula for the area of a triangle is. If the triangle has a base of 18 cm and an area of 90 cm2. What is the height of the triangle?

20. At your part-time job you work 5 hours on Friday and 6 hours on Saturday. You also receive an allowance of $30 per week. If you earn $129 per week how much do you earn per hour at your part-time job?