Foundations of Math I: Unit 2 Study Guide

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

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

|  |  |
| --- | --- |
| **Objective** | **Score** |
| 1 | A B NY |
| 2 | A B NY |
| 3 | A B NY |
| 4 | 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 = 18
2. Solve for x;
3. Solve for x:
4. Solve for x:

**OBJ. 2: Solving Multi-step/Variables on Both Sides Equations (2)**

1. Solve for x;
2. Solve for x:

A. x = 12 C. Infinitely Many Solutions

B. No solution D. x = 0

1. Solve for x:
2. Solve for x:

**OBJ. 3: Word Problems(1)**

5. The sum of three consecutive integers is 84. What are the integers?

6. The width of a rectangle is 4 more than its length. The perimeter is 64. State the dimensions of the rectangle.

7. Anne and Mary have a combined age of 30. Anne is twice Mary’s age. How old is Mary?

8. Michael has $30. He wants to purchase 5 CD’s that are $8 each. How much more money does he need?

**OBJ. 4: Word Problems(2)**

9. The length of a rectangle is 4 inches less than twice its width. The perimeter of the rectangle is 64 inches. What is the area of the rectangle?

10. 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?

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

12. Find the largest of three consecutive odd integers whose sum is 99.

**OBJ. 5: Calc Inactive**

17. 18.

19. 20.