Foundations of Math I Unit 8 Study Guide

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

ANSWERS:

|  |
| --- |
| **1.**  |
| **2.** |
| **3.** |
| **4.** |
| **5.** |
| **6.**  |
| **6/6 = 100** | **5/6= 85** | **4/6=70** **0-3 = 50** |
| **7.** |
| **8.** |
| **9.** |
| **10.** |
| **11.** |
| **12.**  |
| **6/6 = 100** | **5/6= 85** | **4/6=70** **0-3 = 50** |
| **13.** |
| **14.** |
| **15.** |
| **16.** |
| **17.** |
| **6/6=100 5/6=85 4/6=70** **0-3=50** |

 May the force be with:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**OBJ. 1: Factoring Polynomials and Application I**

1**.**  $25x^{2}+15x$

2**.**  $16a^{2}b^{2}c+10abc – 6abc^{2}$

3.What is the perimeter of the rectangle that has an area of 7x +14? (**Factor by GCF to get the side lengths)**

4.$x^{2}-16$

5. $4x^{2}-81y^{2}$

6. $2x^{3}-18x$ (**gcf first**)

**OBJ. 2: Factoring Polynomials and Application II**

7**.** 

8.

9.$6x^{2}+9x-27$ (**gcf first)**

10.( **gcf first)**

11. Write a simplified expression for the perimeter of rectangle with an area of 3x2 – 2x – 5.

12. The volume of a rectangular prism is: 

Find the length, width and height of the prism**.**

**Objective 3: Mixed Factoring Calculator Inactive**

13. Factor: $x^{2}-7x+12$ 14. Factor: $16x^{3}– 36x$

15. Factor: $5x^{2}y^{4} –45x^{2}y^{3}$ 16. Factor: $2x^{2}-8x-24$

17. What is the value of “**z**” that makes the equation TRUE?

 $x^{2} – 4x + z = (x–2)^{2} $