NC Math 1B Unit 3 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Date:

**Homework Lesson 1: Greatest Common Factor**

**Find the greatest common factor for each:**

1) $46y^{2}, 28xy$ **GCF=\_\_\_\_\_\_\_\_** 2) $32x^{2}, 40x^{4}$ **GCF=\_\_\_\_\_\_\_\_**

3) $45y^{2}x$, $18x^{2}y^{3}$ **GCF=\_\_\_\_\_\_\_\_** 4) $16n^{2}, 15n^{5}$ **GCF=\_\_\_\_\_\_\_\_**

5) $32v^{4}w^{2}x, 40w^{5}v^{3}$ **GCF=\_\_\_\_\_\_\_\_** 6) $24x, 48x^{2}y$ **GCF=\_\_\_\_\_\_\_\_**

7) $10y^{4}-46y^{4}$ **GCF=\_\_\_\_\_\_\_\_** 8) $12xz+20yx$ **GCF=\_\_\_\_\_\_\_\_**

9) $48ba^{2}c^{5}+30a^{3}bc^{2}$ **GCF=\_\_\_\_\_\_\_\_** 10) $36x^{2}y^{2}-20y^{4}$ **GCF=\_\_\_\_\_\_\_\_**

11) $90x^{2}-30y^{3}+45z$ **GCF=\_\_\_\_\_\_\_\_** 12) $4x^{3}-6x^{5}+8x$ **GCF=\_\_\_\_\_\_\_\_**

**Find the greatest common factor for each then factor completely.**

13) $16y^{2}+8y$ **GCF=\_\_\_\_\_\_\_\_ Factored Form: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

14) $6x^{5}y^{3}-20x^{3}y^{2}+18x^{4}y$ **GCF=\_\_\_\_\_\_\_\_ Factored Form: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

15) $12x^{3}-18x^{2}+24x$ **GCF=\_\_\_\_\_\_\_\_ Factored Form: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**