**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_**

**BOX QUIZ 7**

**Answer the following questions and show all work.**

|  |  |
| --- | --- |
| **Find the prime factorization of 5,000,000.** | **Answer the question with “Yes” or “No” and state a divisibility rule as a reason for that answer.**  **Is 123,144 divisible by 6?** |
| **Show your work for 231 X 37 using the Lattice Method algorithm**. | **Identify the pattern as geometric or arithmetic and find the next three terms.**  **5, 11, 17, 23**  **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |