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

**BOX QUIZ 1**

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

|  |  |
| --- | --- |
| **List the four steps to Polya’s problem solving method.** | **How many squares, of any possible size, are on a 4 × 4 chessboard? Explain how you found your solution.** |
| **Write a solution to the following pattern and identify an example for the next three terms:**  **Zoe, Yasmin, Xavier, Willy…**  **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | **Given the following sequence:**  **5, 25, 125, ………**   1. **Identify the pattern as geometric or arithmetic**   **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**     1. **Identify the next three terms**   **\_\_\_\_\_\_**  **\_\_\_\_\_\_**  **\_\_\_\_\_\_** |