Name: _____ Period: _____ Date: _____

# **Sets** Exit Quiz

**Part A Instructions:** Choose the option that completes the sentence or answers the question.

1. **Which one of these is not a well-defined set?**

   a. $N$
   b. $W$
   c. $Z$
   d. None of these

2. **Which one of these is a universal set?**

   a. $\{a, b, c, d\}$
   b. $\{0,1,2,3,4,5,6,7,8,9\}$
   c. $\{-1,1\}$
   d. None of these

3. **If $\boldsymbol{A} = \{\mathbf{1}, \mathbf{3}, \mathbf{5}, \mathbf{7}, \mathbf{9}, \mathbf{11}, \ldots\}$ and $\boldsymbol{B} = \{\mathbf{2}, \mathbf{4}, \mathbf{6}, \mathbf{8}, \mathbf{10}, \ldots\}$, then $\boldsymbol{A} \cup \boldsymbol{B}$ is:**

   a. $\{1,3,5,7,9,11, \ldots\}$
   b. $\{2,4,6,8,10,12, \ldots\}$
   c. $\{1,2,3,4,5,6, \ldots\}$
   d. None of these

4. **Which statement is true?**

   a. $A \cup B = B \cup A$
   b. $A \cap B = B \cap A$
   c. $U' = \{\,\}$
   d. All of these

**Part B Instructions:** Answer the question below.

5. **Given $\boldsymbol{U} = \{\mathbf{1}, \mathbf{2}, \mathbf{3}, \mathbf{4}, \mathbf{5}, \mathbf{6}, \mathbf{7}, \mathbf{8}, \mathbf{9}, \mathbf{10}, \mathbf{11}, \mathbf{12}\}$, $\boldsymbol{A} = \{\mathbf{1}, \mathbf{3}, \mathbf{5}, \mathbf{11}, \mathbf{12}\}$, $\boldsymbol{B} = \{\mathbf{2}, \mathbf{3}, \mathbf{5}, \mathbf{7}, \mathbf{11}\}$, $\boldsymbol{C} = \{\mathbf{7}, \mathbf{11}\}$, find $\boldsymbol{A} \cup \boldsymbol{B} \cup \boldsymbol{C}$ and $\boldsymbol{A} \cap \boldsymbol{B} \cap \boldsymbol{C}$.**