Name: _____ Period: _____ Date: _____

Working with Wets Bell Work

Write each set in roster form.

1. $C = \{n \mid n \text{ is an odd integer, } n > 0\}$
2. $D = \{n \mid n \text{ is an even prime}\}$

Write each set in set-builder notation.

3. $G = \{-3, -2, -1, 0, 1, \ldots\}$
4. $H = \{3, 6, 9, 12\}$
5. $J = \{2, 4, 6, 8, 10\}$

Write the solutions of each inequality in set-builder notation.

6. $-(3x + 6) \leq -12$
7. $-2(x - 4) > -10 - 3x$

List all the subsets of each set.

8. $\{a, b, c\}$
9. $\{0, 3, 6\}$
10. $\{\text{car}, \text{bus}, \text{van}\}$
11. $\{-5, 5\}$

Suppose $U = \{1, 2, 4, 7, 12, 16\}$, $A = \{2, 4, 7\}$ and $B = \{1, 2, 4\}$. Tell whether each statement is true or false. Explain.

12. $A \subseteq U$
13. $U \subseteq B$
14. $B \subseteq A$
15. $\emptyset \subseteq B$