Sets Subsets Solutions Sets
02/29/2012
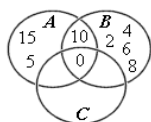
Student Name: _____

Class: _____

Date: _____

Instructions: **Read each question carefully and select the correct answer.**

1. Given sets *A*, *B*, and *C* expressed in the diagram, which answer choice is <u>FALSE</u>?

   A. $C \subset A$

   B. $A \cap B = \{10\}$

   C. $C \subset B$

   D. $A \cup B = \{0, 2, 4, 5, 6, 8, 10, 15\}$

2. If set $A = \{3, 6, 9, 12, 15\}$ and set $B = \{5, 10, 15, 20, 25\}$, then which answer choice is <u>NOT</u> true?

   A. $A \cap B = \{15\}$

   B. $A \cup B = \{3, 6, 9, 12, 15, 20, 25\}$

   C. $A \nsubseteq B$

   D. $A \cup B = \{3, 5, 6, 9, 10, 12, 15, 20, 25\}$

3. Solve and describe the set: x + 3 = x - 8

   A. empty set
   B. - 5
   C. 11
   D. x = -5, x = 5

4. Find the solution set and choose the corresponding number line description: 10x - 5[6 - (4 - x)] > 7x - 8

   A. all points to the right of -1
   B. all points to the left of -1
   C. all points to the right of -1, including -1
   D. all points to the left of -1, including -1