Mathematics

Name _____   **Grade**:_____   **Date**:_____

Intersection of Sets

Write **T** for (True) and **F** for (False) on the blank spaces

1. The students in your class are a subset of all the students in your school. _____
2. Prime numbers are a subset of composite numbers. _____
3. If A={x,y,z}, B= {s,t,u} then A∩B is ∅. _____
4. If n (C) = 4 and n(D) = 4 then C = D._____
5. The set of mothers in the world is finite. _____
6. All equivalent sets are equal. _____
7. If X ={a,b,c} and Y = {c,d,e} then X ∪ Y = {a,b,c,d,e}. _____
8. Union is the set of members of 2 sets. _____
9. Two sets are disjoint when their intersection is an empty set. _

In the spaces provided place the symbol that will make the relationship true.

=	<->	∪	∩	⊆	⊄	∈	∉	∅	...

1) If A = {piano, guitar, violin} and B = {guitar, piano, violin} then B_____A
2) If R = {1,3,5} and S = {5,6,7} then R_____S = {5}.
3) If X = {denominational churches} Y = {Baptist} ∴ Y ___X.
4) If Q = { 2,3,4,5} then 3 _____ Q.
5) W = {man, woman, child} and T= {leaf, tree, branch} so W_____T
6) This symbol means it goes on forever _____.
7) If M = {d,e, f,g} and N = {a,b,c,d,e} then M ___N = {a,b,c,d,e,f,g}
10. If Y = {4,3,2,1} and Z = { 4, 5,6,7} then 3 ___ Z
11. W = {man, woman, child} and T= {leaf, tree, branch} so W ∩T

    = _____