

**Quiz 2 VA**

1. Draw the Venn diagram representing "A is a SUBSET of B"
2. Draw a Venn diagram representing the following deductive argument:  
Premise: All students are people who work hard.  
Premise: Rachael is not a student.  
Conclusion: Rachael does not work hard.
3. In problem number 2 above, is the deductive argument logically VALID?  
Briefly explain why or why not. (Use your Venn diagram.)
4. Given an exchange rate of 1.5 USD to 1 Euro, write two conversion factors from this exchange rate and then convert 30 Euro to USD. SHOW YOUR WORK!
5. TRUE OR FALSE: An inductive argument can prove its conclusion.  
TRUE                  FALSE