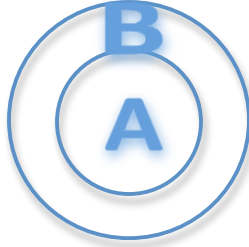
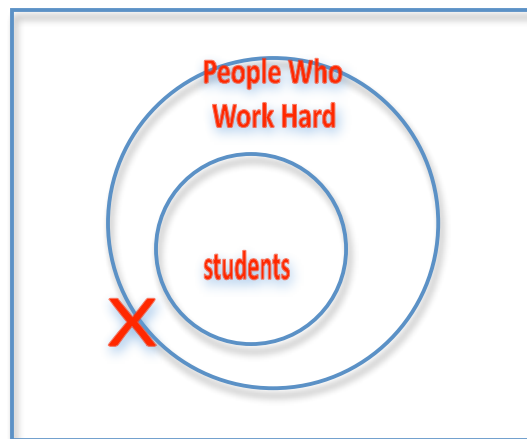


## Quiz 2 VA

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.)

No, since the X representing Rachael is on the border.

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!

1.5 USD / 1 Euro      and      1 Euro / 1.5 USD  
 30 Euro x 1.5 USD/Euro = 45 USD

5. TRUE OR FALSE: An inductive argument can prove its conclusion.  
 TRUE                  FALSE