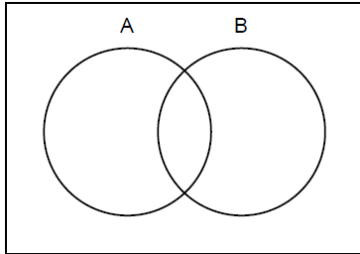


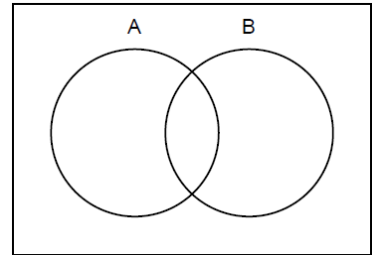
Name: _____ Date: _____

Using Venn Diagrams

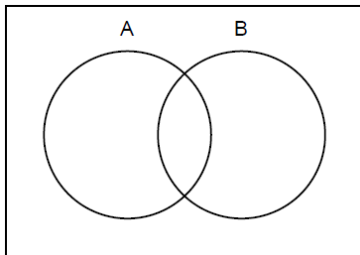
A



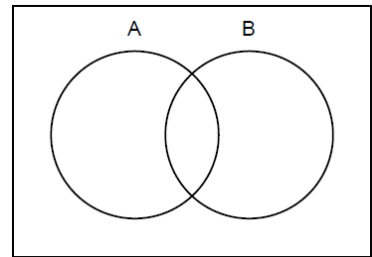
A'



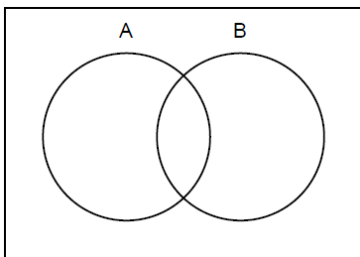
B



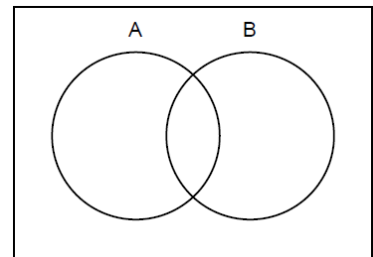
B'



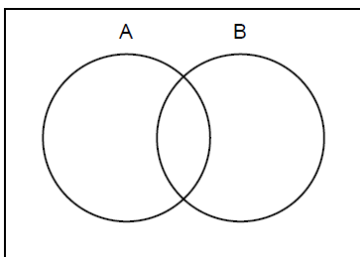
A ∩ B



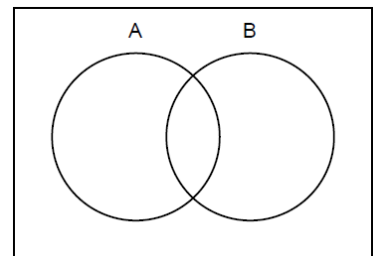
A - B



A ∪ B

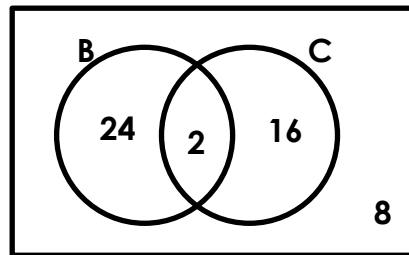


(A ∪ B)'

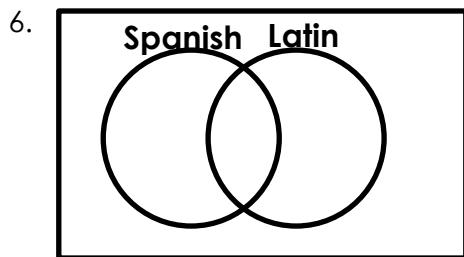


If the Venn Diagram below shows the number of people in a fine arts club who are in band (B) and choir (C), make the following determinates:

- _____ 1. How many people are in the club?
- _____ 2. Find $P(B)$
- _____ 3. Find $P(B \cap C)$
- _____ 4. Find $P(B \cup C)$
- _____ 5. Find $P(B)'$



A guidance counselor is planning schedules for 30 students. 16 want to take Spanish and 11 want to take Latin. 5 Say they want to take both. Display this information on the Venn Diagram below.



- _____ 7. Find $P(S \cap L)$
- _____ 8. Find $P(L)$
- _____ 9. What is the probability that a student studies at least one subject? $P(S \cup L)$
- _____ 10. What is the probability that a student studies exactly one subject?
- _____ 11. What is the probability that a student studies neither subject? $P(S \cup L)'$
- _____ 12. What is the probability that a student studied Spanish if it is known that the student studies Latin?