Name: _____
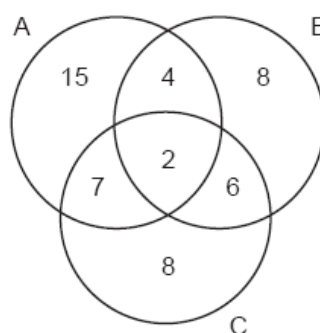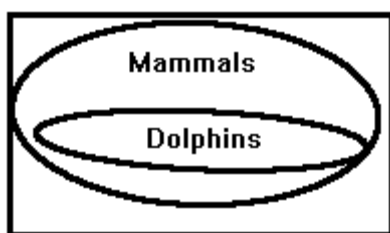
Sets

1) The accompanying Venn diagram shows the number of students who take various courses. All students in circle *A* take mathematics. All in circle *B* take science. All in circle *C* take technology. What percentage of the students takes mathematics or technology?
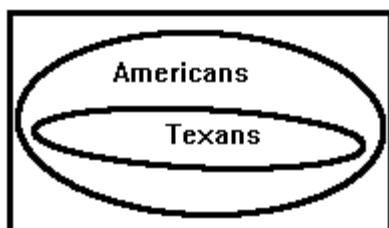

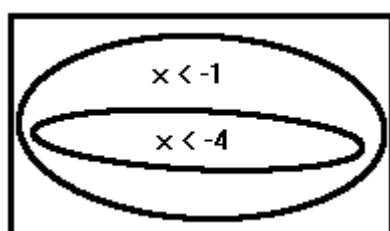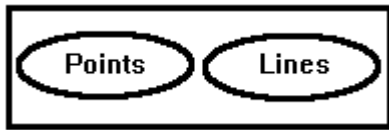2) Write a conditional statement from each Venn diagram.

1)

2)

3)
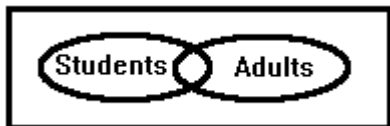
3) For each Venn diagram, write two statements beginning with some, all, or No.

1)

2)

4) Given the two sets $A = \{1,2,3,4\}$ and $B = \{a,b,c,d,x,y\}$, find:

1) $A \cap B$
2) $A \cup B$
3) $\overline{A}$
4) $A - B$
5) $A \oplus B$

5) Given the two sets $A = \{4,8,9\}$ and $B = \{a,b,c,3\}$, find P(A) and P(B).