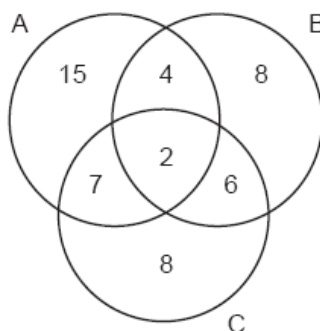


Name: \_\_\_\_\_

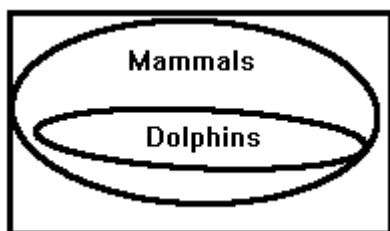
**Sets**

- 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?

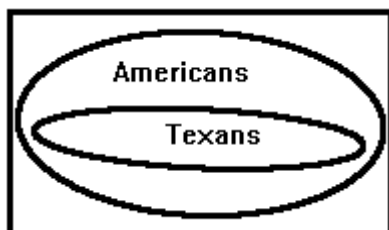


- 2) Write a conditional statement from each Venn diagram.

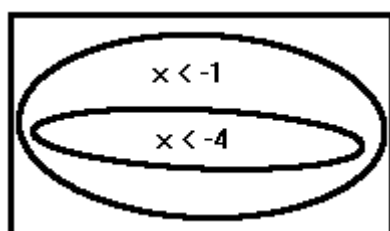
1)



2)

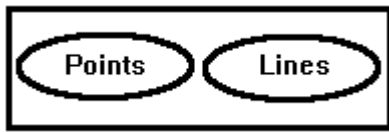


3)

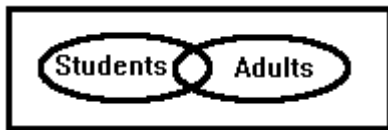


3) For each Venn diagram, write two statements beginning with some, all, or No.

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  $P(B)$ .