Name

Date____

Advanced Algebra

Unit 8: Probability- Assignment #13 Venn Diagrams

For the following, complete the Venn Diagram and then find values for a through d.

1. In a group of 40 Baboons, 30 enjoy grooming their neighbors, 22 enjoy screeching widely, and 18 enjoy grooming neighbors and screeching wildly.



- a. P(A)b. P(B)c. $P(A \cap B)$ d. $P(A \cup B)$
- 2. In a group of 56 students, 42 take Math, 34 take Psychology and 10 take neither.



a.
$$P(A)$$

b. $P(B)$
c. $P(A \cap B)$
d. $P(A \cup B)$

3. A survey of 94 college students was taken to determine where they got the news about what is going on in the world. 63 students got the news from newspapers, 54 from television, and 12 from neither..



a.
$$P(A)$$

b. $P(B)$
c. $P(A \cap B)$
d. $P(A \cup B)$

4. A survey of 236 college students was taken at registration. Of those surveyed, 126 students registered for a math course, 108 for an English course and 16 for both math and English.



a.
$$P(A)$$

b. $P(B)$
c. $P(A \cap B)$
d. $P(A \cup B)$

5. A survey of 180 college men was taken to determine participation in various activities. 43 were in Frats, 52 were in sports, and 35 were in tutoring programs. 13 were in Frats and Sports. 14 were in Sports and tutoring. 12 were in Frats and Tutoring. Five were in all three.

