

Quiz

Topics in Contemporary Mathematics (MATH 110) Date: September 16, 2013

Name:

1. (1 pt) What is the number of subsets of the set $U = \{a, b\}$?

2. Let $A = \{1, 3, 4, 6\}$ and $B = \{3, 6, 7\}$.

a. (1 pt) Draw the Venn diagram of the sets A and B .

b. (1 pt) What is $A \cap B$?

$$A \cap B =$$

c. (1 pt) What is $A \cup B$?

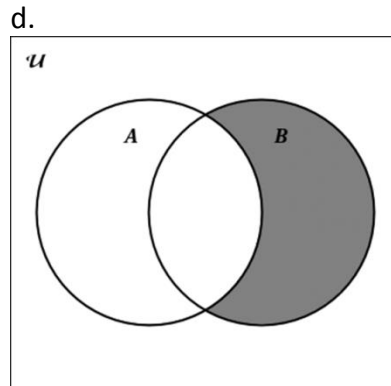
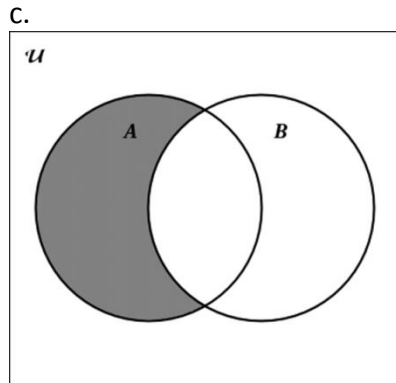
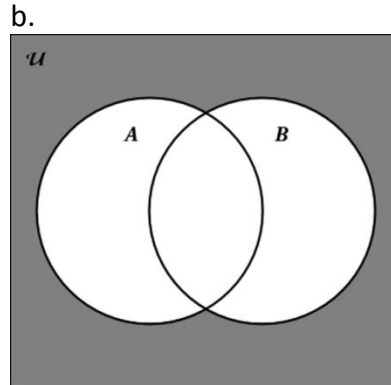
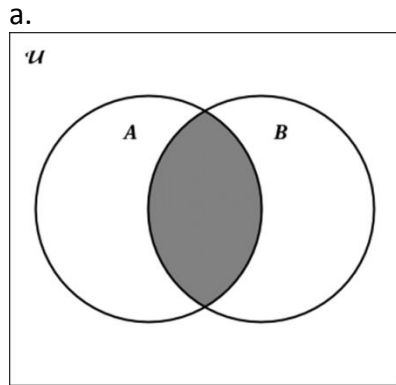
$$A \cup B =$$

d. (1 pt) What is $A - B$?

$$A - B =$$

3. (2 pt) In a particular school, 800 students are registered for TOEFL, 500 are registered for TSE, and 200 are registered for both tests. What is the total number of registered students?

4. (1 pt) Circle the Venn diagram whose shaded region represents the set: $A' \cap B'$.



5. (2 pt) On checking with 90 families, it was found that 65 families subscribe to Time, 55 to Newsweek, and 5 to neither magazine. How many subscribe to both?