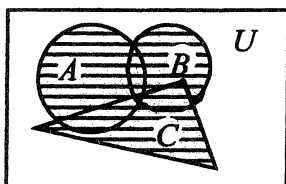


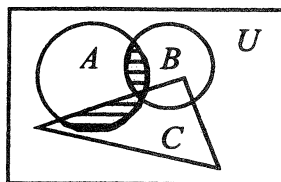
20 CHAPTER 2 Answers to Sample Assessment FORM A

1. $\emptyset, \{2\}, \{o\}, \{2, o\}, \{t\}, \{2, t\}, \{o, t\}, \{2, o, t\}$
2. (a) x is a female who does not own a pickup.
 (b) x is a female who either owns a pickup or a dog or both.
 (c) x is a female mathematician who does not own a dog.
 (d) x is a female nonmathematician who does not own a dog.
 (e) x is a female who owns a pickup but is not a mathematician.
 (f) x is a female nonmathematician.
3. (a) $\{n\}$ (b) $\{u, n, i, t, e\}$ or C or U (c) $\{n, i, t\}$ or A
 (d) \emptyset (e) \emptyset (f) $\{e\}$
 (g) $\{n\}$ (h) \emptyset (i) 5
 (j) 5

4. (a)



(b)

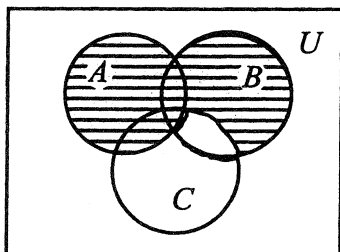


5. 15

6. 6

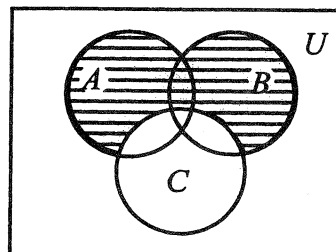
7. 9

8.



$$A \cup (B - C)$$

\neq



$$(B \cup A) - C$$

9. Answers may vary. For example,

- (a) $(A \cap B) \cup (A \cap C) \cup (B \cap C)$
 (b) $(A \cap C) \cup (D \cap C) \cup B$