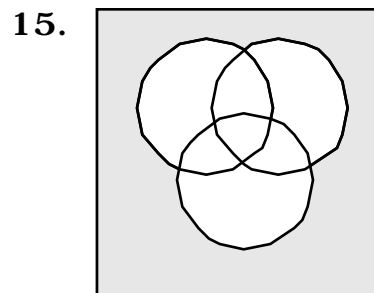
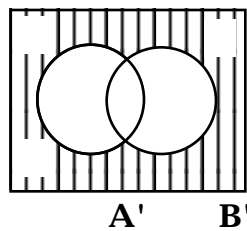
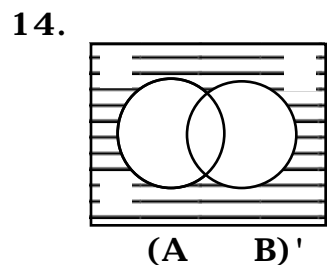


**ANSWERS TO STUDENT'S PRACTICE TESTS**

**CHAPTER 1, TEST A**

1. (a) 30 (b) 25      2. (a) 4 (b) 38
3.  $A - B$  or  $A \cap B'$       4. 8
5. (a) 5 (b) 28 (c) 7
6.  $\begin{matrix} 2 & 4 & 8 & \dots & n \\ \updownarrow & \updownarrow & \updownarrow & & \updownarrow \\ 1 & 2 & 3 & \dots & n \end{matrix}$  This one-to-one correspondence shows that the two sets have the same cardinal number.
7. 77, 100, 126. Add 5 to the first term 2, to get 7  
Add 8 to the second term, to get 15  
Add 11 to the third term, to get 26  
and so on.
8. {2, 4, 6, 8}
9. (a) The set of positive even integers, starting with 4.  
 $\{x \mid x = 2n, n = 2, 3, 4, \dots\}$   
(b) The set of positive odd integers, starting with 3.  
 $\{x \mid x = 2n + 1, n = 1, 2, 3, \dots\}$
10. {1}, {2}, {3}, {1, 2}, {1, 3}, {2, 3}, {1, 2, 3}
11. (a)  $B - A$  (b)  $A \cap B$  (c)  $A \cup B$
12. (a) {a, d} (b) {a, b, c, e} (c) {a, b, d} (d) {c, e} (e) {a}
13. (a) {b, e} (b) {c}



16. (a) Region 5 (b) Regions 3, 4, 5, 6, 7  
(c) Regions 2, 6 (d) Regions 3, 4, 5, 6, 7

**CHAPTER 1, TEST B**

1. (a)    2. (b)    3. (d)    4. (c) 5. (a)    6. (d)
7. (c)    8. (b)    9. (c)    10. (e)    11. (e)    12. (b)
13. (d)    14. (c)    15. (c)    16. (d)    17. (d)    18. (c)
19. (a)    20. (b)    21. (b)    22. (d)