

Solutions

1. $\{1, 2, 4, 6, 7, 8, 9, 10, 11, 12, 13, 14\}$
2. $\{1, 3, 5, 7, 9, 11, 13, 15\}$
3. $\{6, 7, 8, 9, 10, 11, 12, 13, 14, 15\}$
4. $\{2, 4, 6, 7, 8, 9, 10, 11, 12, 14\}$
5. \emptyset
6. $\{3, 5\}$
7. $\{3, 5, 15\}$
8. $\{2, 4\}$
9. \emptyset
10. $\{1, 3, 5\}$
11. $\{2, 3, 4, 5, 6, 8, 10, 12, 14, 15\}$
12. $\{1, 2, 3, 4, 5, 15\}$
13. $\{1, 3, 5, 13, 15\}$
14. $\{1, 2, 3, 4, 5, 6, 8, 10, 12, 14\}$
15. $\{1, 2, 3, 4, 5, 6, 8, 10, 12, 13, 14, 15\}$
16. $\{1, 2, 3, 4, 5, 13, 15\}$
17. $\{1, 2, 4, 6, 7, 8, 9, 10, 11, 12, 13, 14\} \cap \{2, 4, 6, 8, 10, 12, 14\}$
 $= \{2, 4, 6, 8, 10, 12, 14\}$
18. $\{3, 5, 15\} \cap \{1, 3, 5, 7, 9, 11, 13, 15\} = \{3, 5, 15\}$
19. $\{1, 3, 5, 7, 9, 11, 13, 15\} \cap \{1, 2, 3, 4, 5\} = \{1, 3, 5\}$
20. $\{2, 4, 6, 8, 10, 12, 14\} \cap \{6, 7, 8, 9, 10, 11, 12, 13, 14, 15\} = \{6, 8, 10, 12, 14\}$
21. $\{1, 2, 4, 6, 7, 8, 9, 10, 11, 12, 13, 14\} \cup \{1, 3, 5, 7, 9, 11, 13, 15\}$
 $= \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15\}$
22. $\{1, 2, 4, 6, 7, 8, 9, 10, 11, 12, 13, 14\} \cap \{1, 3, 5, 7, 9, 11, 13, 15\}$
 $= \{1, 7, 9, 11, 13\}$
23. \emptyset
24. $\{1, 2, 3, 4, 5, 6, 8, 10, 12, 14, 15\}$