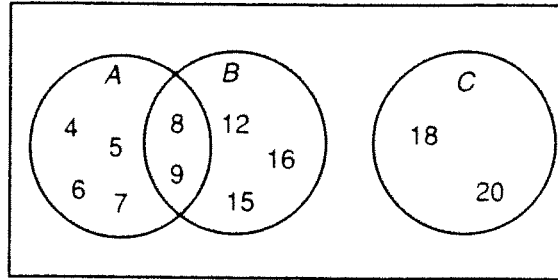


EXTRA PRACTICE 1-3

UNION AND INTERSECTION OF SETS



EXERCISES

Refer to the diagram. Find the set named by listing the members.

1. $A \cup B$ _____
2. $A \cap B$ _____
3. $A \cup C$ _____
4. $A \cap C$ _____
5. $B \cup C$ _____
6. $B \cap C$ _____
7. $(A \cup B) \cup C$ _____
8. $(A \cap C) \cup B$ _____

Let $U = \{0, 2, 4, 6, 8, 10, 12\}$, $X = \{2, 4, 6, 8, 10\}$, $Y = \{4, 6, 8\}$, and $Z = \{2, 10\}$. Find each union or intersection.

- | | |
|-------------------------------|-------------------------------|
| 9. X' _____ | 10. Y' _____ |
| 11. Z' _____ | 12. $X \cup Y$ _____ |
| 13. $Y \cap Z$ _____ | 14. $(X \cup Y)'$ _____ |
| 15. $X' \cup Y'$ _____ | 16. $(X \cap Y)'$ _____ |
| 17. $Y' \cap Z'$ _____ | 18. $(X \cup Z)'$ _____ |
| 19. $(X \cup Y) \cap Z$ _____ | 20. $(X \cup Z) \cap Y$ _____ |

