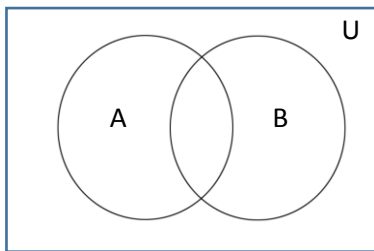


Directions: If $M = \{2, 3, 4, 5, 8, 9\}$, $N = \{1, 4, 5, 8\}$, $P = \{3, 4, 6\}$ and the universal set $U = \{1, 2, 3, 4, 5, 6, 7, 8, 9\}$, find each of the following.

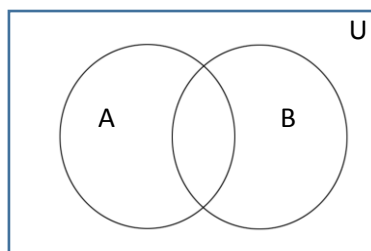
1. $M \cap N =$ _____
2. $P' =$ _____
3. $M \cup P =$ _____
4. $(M \cup P)' =$ _____
4. $(M \cup P) \cap N =$ _____
5. $(M \cap P) \cup N =$ _____
6. $P - N =$ _____
7. $M - N =$ _____
8. $N - M =$ _____
9. $(P \cap N)' =$ _____
10. $P \cap N =$ _____
11. If $Q = \{1, 2, 9\}$, what is $P \cap Q$? _____
12. $N' =$ _____
13. Is $\{1, 5, 8\} \subseteq N$? _____
14. Is $\{1, 5, 8\} \subseteq P$? _____
16. List all the subsets of P. _____
17. List all the elements of M. _____

Directions: Shade each of these to represent the given expression.

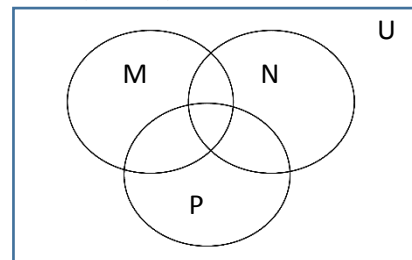
10. $A \cup B$



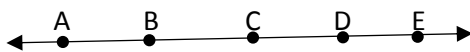
11. $A \cap B$



12. $(M \cup P) \cap N$



Directions: Given the line below, write each of the following sets:



13. $\overline{AB} \cup \overline{BC} =$ _____
14. $\overrightarrow{AB} \cup \overrightarrow{CB} =$ _____
15. $\overline{AC} \cup \overline{BE} =$ _____
16. $\overrightarrow{AB} \cap \overrightarrow{BC} =$ _____
17. $\overline{AB} \cap \overline{CB} =$ _____
18. $\overrightarrow{AB} \cap \overrightarrow{BC} =$ _____

Directions: Given the parallelogram, write each of the following sets:

19. $AB \cap BC =$ _____
20. $\overline{EC} \cup \overline{EA} =$ _____
21. $\overleftrightarrow{AC} \cap \overleftrightarrow{DB} =$ _____
22. $\overline{DC} \cap \overline{AB} =$ _____
23. $\overrightarrow{AC} \cap \overrightarrow{EC} =$ _____
24. $\overrightarrow{BA} \cup \overrightarrow{BC} =$ _____

