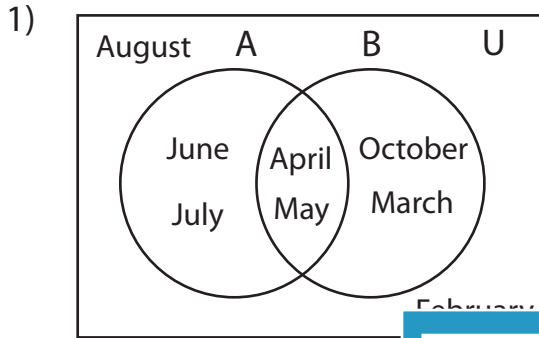


Venn Diagram

L3S4

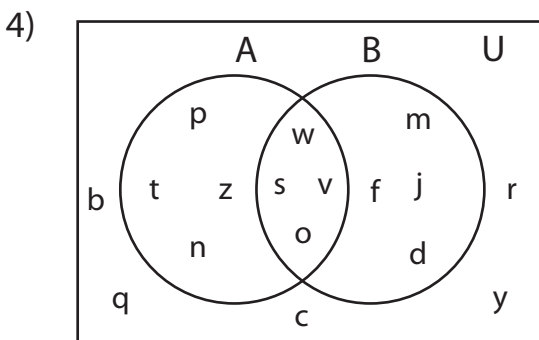
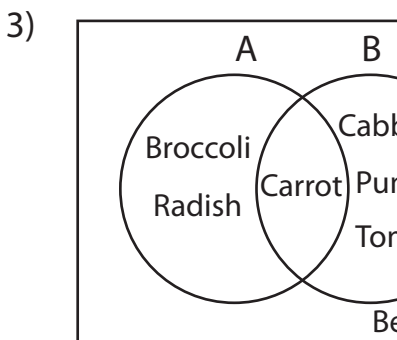
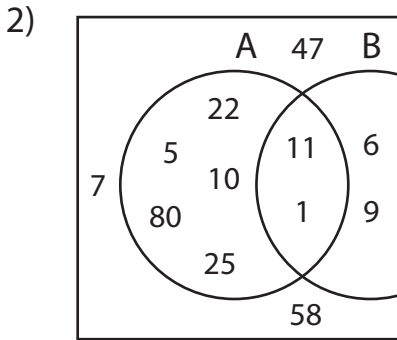
Perform the below mention boolean algebraic operation for the given set of elements.



i) $(B - A') \cup (B - A) =$ _____

ii) $(A \cup B') - (A \cup B) =$ _____

iii) $A \cup (A \cap B) =$ _____



i) $(A' \cup B) \cap (A - B') =$ _____

ii) $A' \cap (A' - B) =$ _____

iii) $(A \cup B)' \cup (A \cap B)' =$ _____

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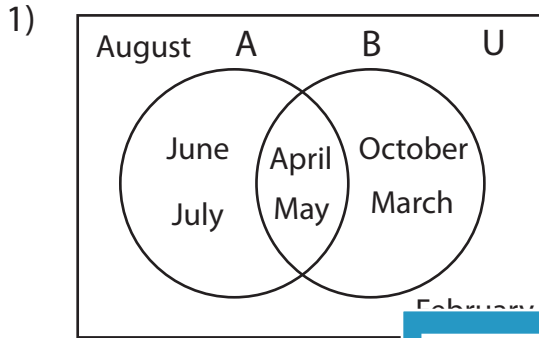
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Answer key

Venn Diagram

L3S4

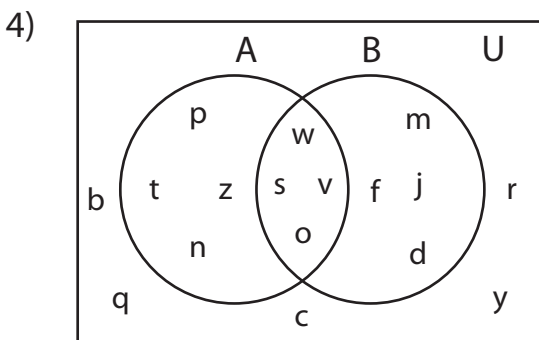
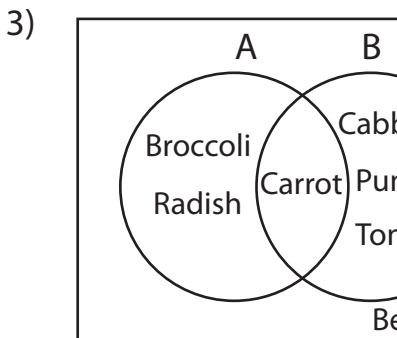
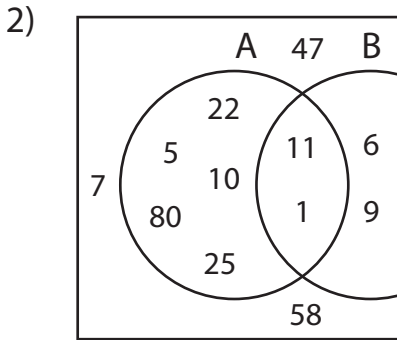
Perform the below mention boolean algebraic operation for the given set of elements.



i) $(B - A') \cup (B - A) = \underline{\text{\{March, April, May, October\}}}$

ii) $(A \cup B') - (A \cup B) = \underline{\text{\{February, August\}}}$

iii) $A \cup (A \cap B) = \underline{\text{\{April, May, June, July\}}}$



i) $(A' \cup B) \cap (A - B') = \underline{\text{\{o, s, v, w\}}}$

ii) $A' \cap (A' - B) = \underline{\text{\{b, c, q, r, y\}}}$

iii) $(A \cup B)' \cup (A \cap B)' = \underline{\text{\{b, c, d, f, j, m, n, p, q, r, t, y, z\}}}$

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_____, 60}

_____, 11, 15, 22, 25, 60, 80}

_____, 22, 25, 60, 80}

_____, Broccoli, Carrot, Radish}

_____, lish}

_____, mpkin, Tomato}