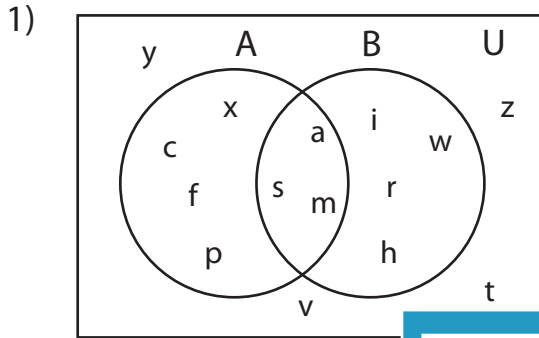


Venn Diagram

L3S3

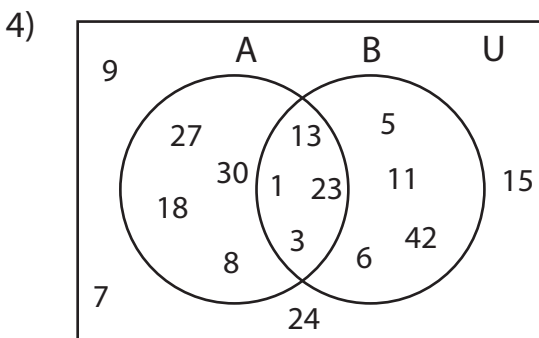
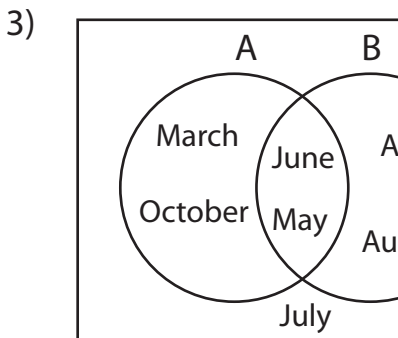
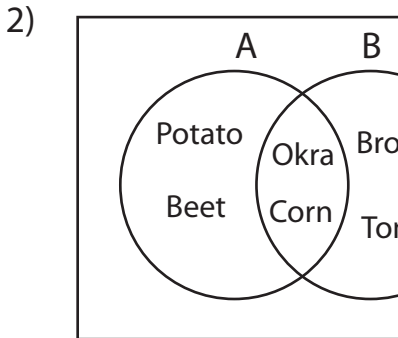
Perform the below mention boolean algebraic operation for the given set of elements.



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

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

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



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

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

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

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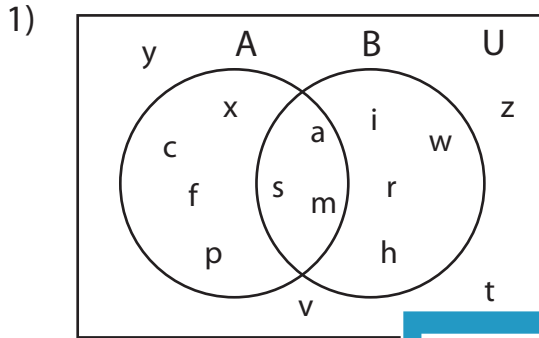
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Answer key

Venn Diagram

L3S3

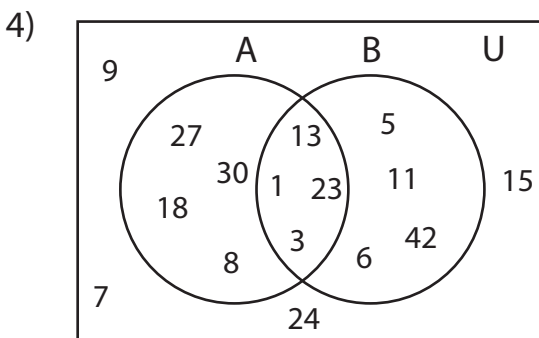
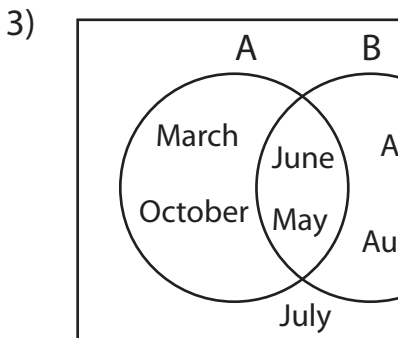
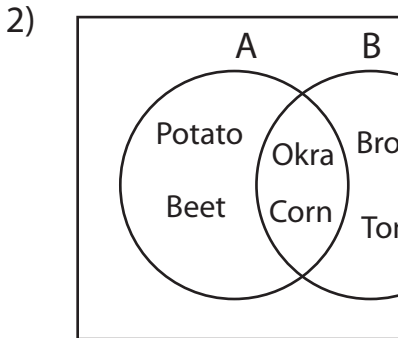
Perform the below mention boolean algebraic operation for the given set of elements.



i) $(A' \cap B) \cap (B \cup A')$ = **{h, i, r, w}**

ii) $(A - B) \cup (B - A')$ = **{a, c, f, m, p, s, x}**

iii) $(A \cup B) - (B \cap A)$ = **{c, f, h, i, p, r, w, x}**



i) $(B \cap A)' - (A' \cap B')$ = **{5, 6, 8, 11, 18, 27, 30, 42}**

ii) $(B - A') \cup (A' - B)$ = **{1, 3, 7, 9, 13, 15, 23, 24}**

iii) $(A - B)' \cap (A \cup A')$ = **{5, 6, 7, 8, 9, 11, 15, 18, 24, 27, 30, 42}**

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{Okra, Corn}

{Broccoli, Tomato, Carrot}

{June, May}

{}