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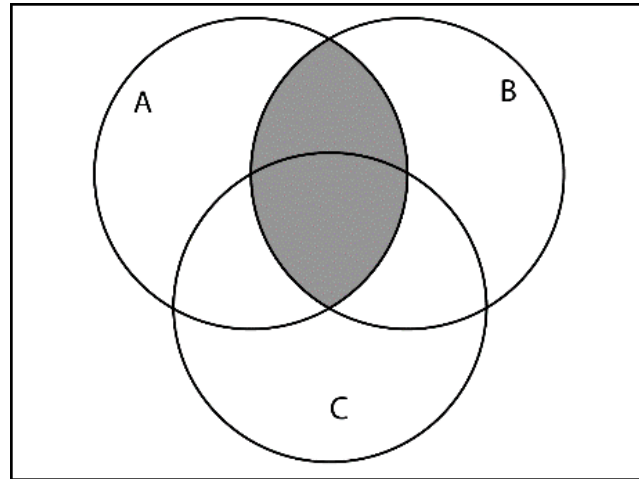
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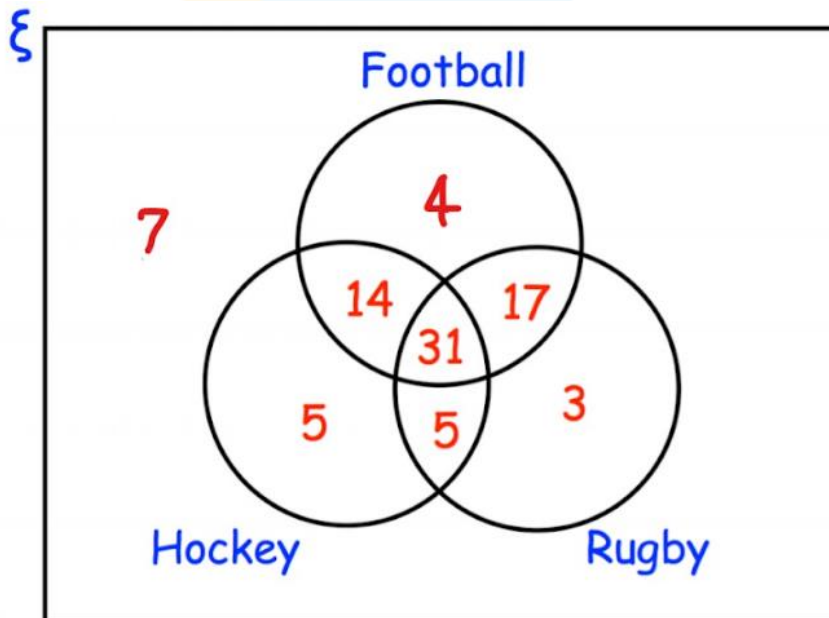
## VENN DIAGRAM WORKSHEET III

1. Jason is wondering which among the following options will rightly represent the shaded region. Help him pick the right option.



- A.  $(A \cap B \cap C) + (A \cap B)$   
B.  $(A \cup B \cup C) + (A \cap B)$

Study the following Venn diagram and state whether the following statements are true or false.



- 31 people play all the three games.
- 12 people do not play any of the sports.
- Total Rugby players are 56.
- There are no players that play Football as well as hockey.

6. Jenna has been challenged to list the following? Could you help her match the same?

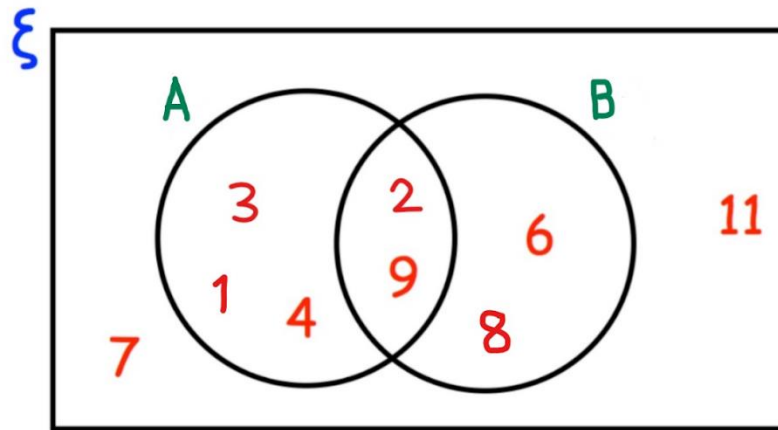
A = First 3 factors of 6,

B = First 6 multiples of 1

i)  $A \cup B = \{ \quad \}$

ii)  $A \cap B = \{ \quad \}$

7. Here is a Venn diagram. Write down the numbers that are in set:

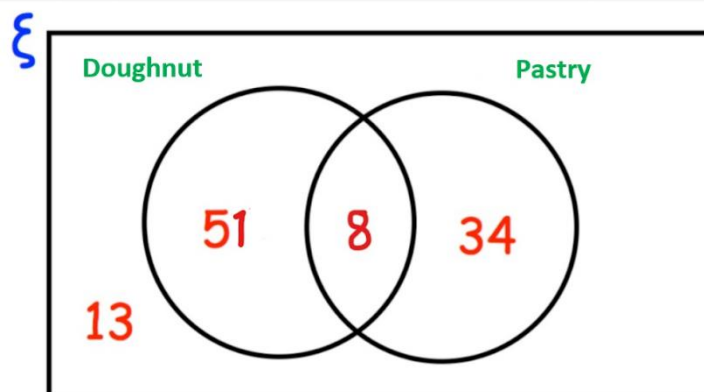


i)  $A =$

ii)  $A \cup B =$

iii)  $A' =$

8. At a wedding party, the guests may have doughnut or pastry with their dessert. The Venn diagram below represents the information regarding the same. Answer the questions that follow.



(a) How many guests had doughnuts?

(b) How many guests had neither doughnut nor pastry?

(c) How many guests were at the wedding?

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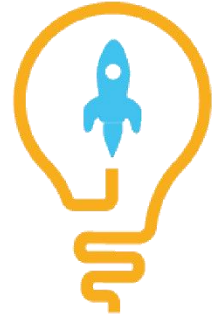
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**ANSWERS**

|    |   |
|----|---|
| 1. | A   |
| 2. | True  |
| 3. | False   |
| 4. | True  |
| 5. | False   |
| 6. | i) $A \cup B = \{1, 2, 3, 4, 5, 6, 12, 18\}$<br>ii) $A \cap B = \{6\}$                                |
| 7. | i) $A = \{1, 2, 3, 4, 9\}$<br>ii) $A \cup B = \{1, 2, 3, 4, 6, 8, 9\}$<br>iii) $A' = \{6, 7, 8, 11\}$ |
| 8. | (a) 59<br>(b) 13<br>(c) 106   |