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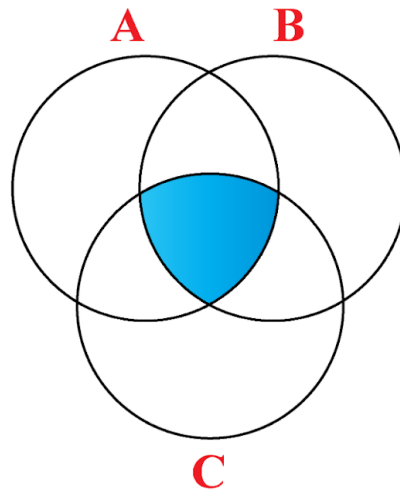
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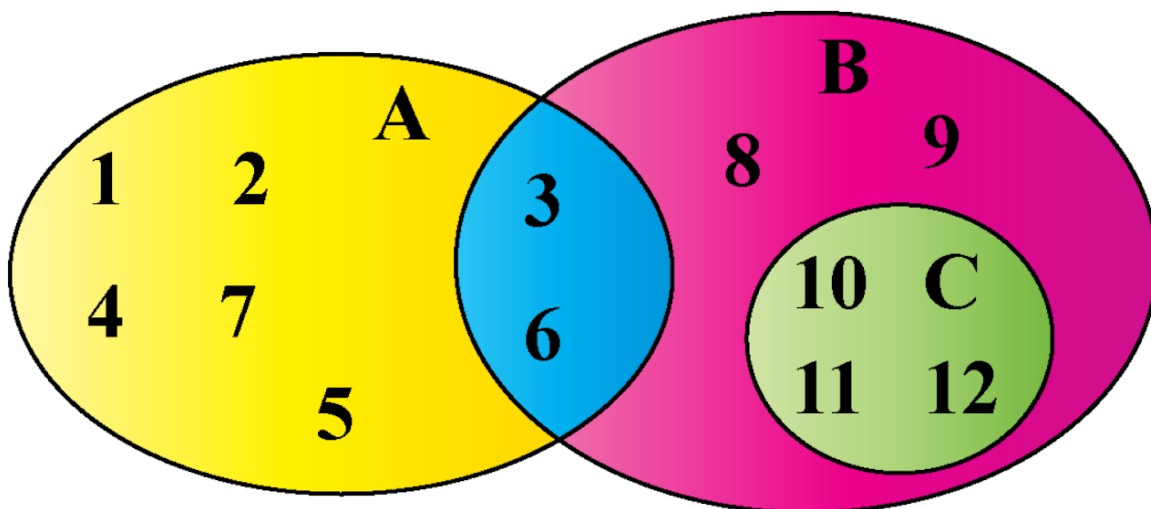
VENN DIAGRAM WORKSHEET I

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



- A. $A \cap B \cap C$
B. $A \cup B \cup C$

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



2. C is a subset of A.
3. The intersection of set A and C is a null set.
4. The intersection of set A and B is 8 and 9.
5. The complement of A includes elements 8, 9, 11 and 12.

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

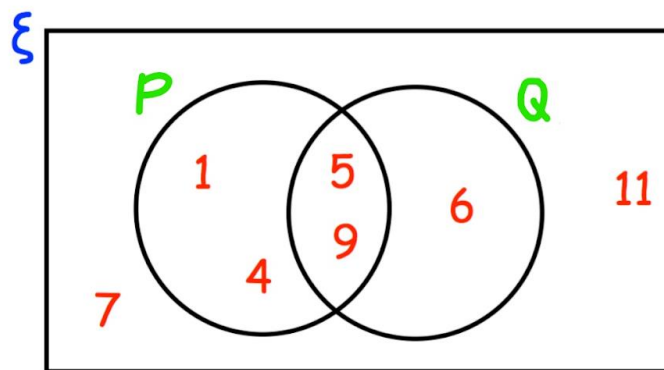
A = First 3 factors of 5,

B = First five 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:

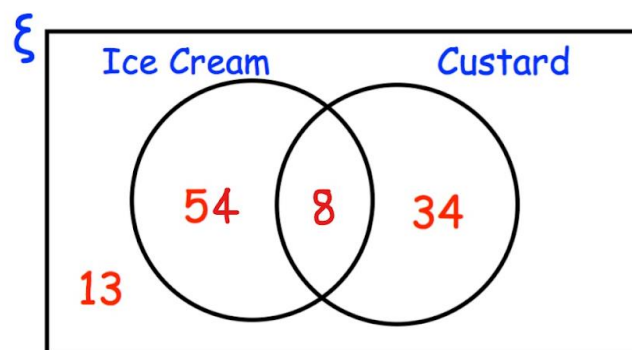


i) $P =$

ii) $P \cup Q =$

iii) $Q' =$

8. At a birthday party, the guests may have ice cream or custard with their dessert. The Venn diagram below represents the information regarding the same. Answer the questions that follow.



(a) How many guests had ice cream?

(b) How many guests neither had ice cream nor custard?

(c) How many guests were at the birthday party?

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- Gary Schwartz

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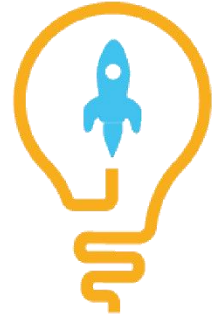
- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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**ANSWERS**

1.	A
2.	False
3.	True
4.	False
5.	True
6.	i) $A \cup B = \{1, 2, 3, 4, 5, 10, 15\}$ ii) $A \cap B = \{5\}$
7.	i) $P = \{1, 4, 5, 9\}$ ii) $P \cup Q = \{5, 9\}$ iii) $Q' = \{1, 4, 7, 11\}$
8.	(a) 62 (b) 13 (c) 109