

Given: $A = \{1, 2\}$, $B = \{2, 4, 6\}$, $C = \{1, 3, 5, 7\}$ and $U = \{1, 2, 3, \dots, 10\}$

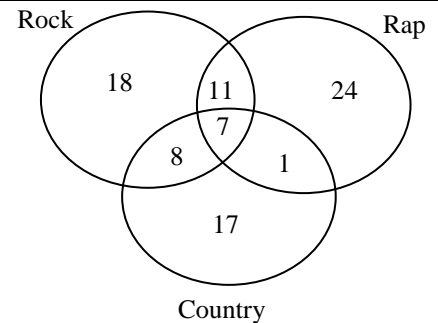
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|----------------|-----------------|
| 1. Find A' | 2. $ C $ |
| 3. $C \cup A$ | 4. $A \cap B$ |
| 5. $A' \cap C$ | 6. $A \oplus C$ |
| 7. $B - A$ | 8. $ B \cup C $ |

Given: $A = \{1, 4\}$, $B = \{2, 4, 6\}$, $C = \{1, 3, 5\}$ and $U = \{0, 1, 2, 3, \dots, 10\}$

True or False. If false explain why.

9. $2 \in A - B$
10. A and C are disjoint.
11. $4 \in A \cap B$
12. $A \oplus B = \{1, 2, 6\}$
13. $B \cup C = U - \{0, 7, 8, 9, 10\}$

Use the Venn Diagram to answer the following questions.



14. How many total people are represented in the diagram? _____
15. How many people like country? _____
16. How many people like Rock and Country? _____

Use the following information to fill in the Venn Diagram below.

17. 100 people were asked if they liked Math, Science, or Social Studies.

- 54 like Math
- 42 like Science
- 32 like Social Studies
- 18 like Math and Science
- 10 like Science and Social Studies
- 12 like Math and Social Studies
- 6 like all three subjects

