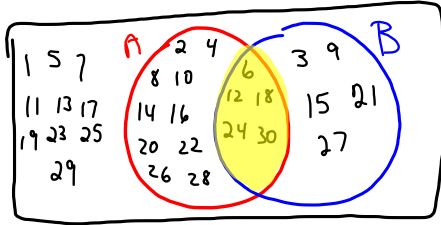


10. Tiffany volunteers in an elementary classroom. She is helping students understand multiples of 2 and 3 in mathematics. The students are working with the numbers 1 to 30. How can Tiffany use a Venn diagram to show the students how the multiples relate to one another?

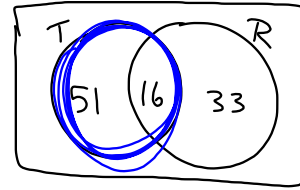
$$A = \{2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30\}$$

$$B = \{3, 6, 9, 12, 15, 18, 21, 24, 27, 30\}$$



Sep 18-8:59 AM

12. At a retirement home, 100 seniors were interviewed.
 • 16 seniors like to watch television and listen to the radio.
 • 67 seniors like to watch television.
 Determine how many seniors prefer to listen to the radio only.



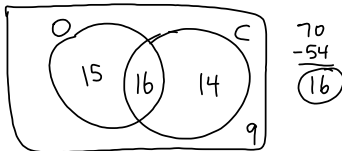
$$\begin{array}{r} 100 \\ - 67 \\ \hline 33 \end{array}$$

Sep 18-9:16 AM

14. Armour is a real estate agent. He asked 54 clients where they live now.

- 31 people own their home.
- 30 people live in a condominium. $n(OUC) = 54 - 9 = 45$
- 9 people rent their house.

Determine how many people own the condominium in which they live.



$$n(O) = 31 \quad n(C) = 30 \quad n(O \cap C) = ?$$

$$n(O \cup C) = n(O) + n(C) - n(O \cap C)$$

$$45 = 31 + 30 - x$$

$$45 = 61 - x$$

$$x = 61 - 45$$

$$x = 16$$

Sep 18-9:22 AM