

Name _____

Date _____

Using Venn Diagrams Problems - Guided Lesson Explanation

Explanation#1

Start by finding the number of Republicans and Democrats.

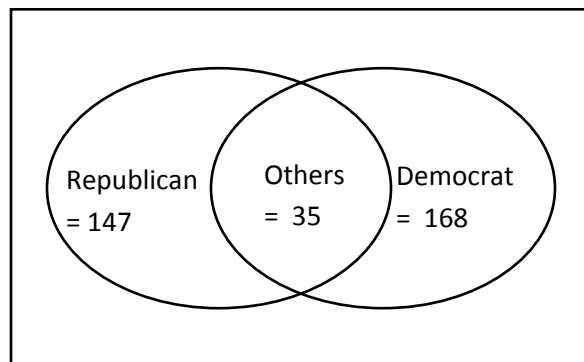
$$\text{Republican} = 42\% \text{ of } 350 = 147$$

$$\text{Democrat} = 48\% \text{ of } 350 = 168$$

168 people have always been Democrat.

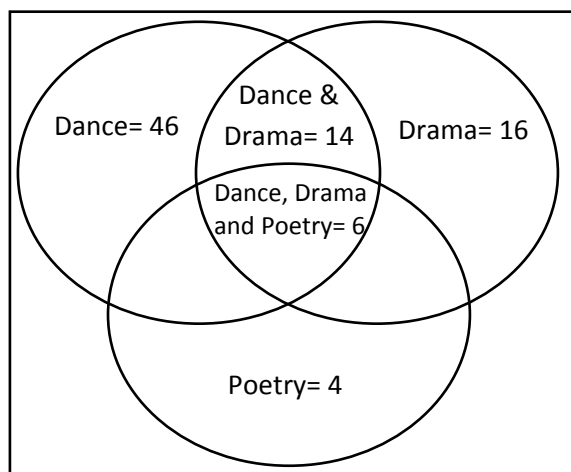
We know that there are 350 people that were polled.

$$\text{Others} = 350 - 147 - 168 = 35$$



Explanation#2

Now we want to find the number of students interested in participating in the different events. Let's diagram what we were told.



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Step 3) $60 - 14 = 46$.

Step 4) 46 Students participating in dance only.

Explanation#3

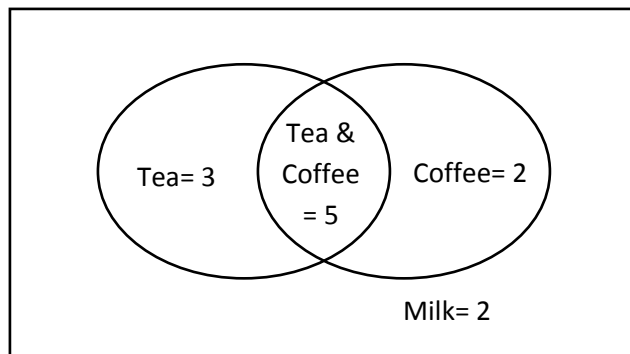
Now we want to the number of employees.

$$\text{Tea} = 8 - 5 = 3$$

$$\text{Coffee} = 7 - 5 = 2$$

$$\text{Milk} = 2$$

$$\text{Tea or coffee both} = 5$$



3 employees drink tea only.

