

1. Draw a Venn diagram to represent each set of information

a.
There are 80 students.
9 students study French (F) and German (G).
35 students only study French.
2 students do not study French or German.

b.
50 children were eating lunch.
11 students only had chips (C).
20 students only had a burger (B).
13 students had both chips and a burger.

c.
In a group of 24 students,
13 like only oranges (O).
2 like only bananas (B).
4 don't like oranges or bananas.

d.
There are 32 students.
24 students study History (H), Geography (G) or both.
15 students only study History.
5 students only study Geography.

2. Draw a Venn diagram to represent each set of information

a.
40 people were asked if they had a cat (C) or a dog (D).
10 people owned both pets.
17 people owned a cat.
14 people didn't own either pet.

b.
110 workers were asked if they liked tea (T) or coffee (C).
90 workers liked tea.
41 workers liked coffee.
25 workers like tea and coffee.

c.
In a class of 24 students,
12 students play the piano (P).
13 students play the guitar (G).
4 students play neither instrument.

d.
100 people were asked if they had visited Rome (R) or Paris (P).
38 had been to Rome.
80 had been to Paris.
11 had not been to either city.

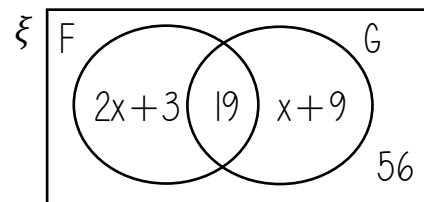
3. Draw a Venn diagram to represent each set of information

a.
32 students were asked which club they belong to.
6 students are only part of the art club (A).
2 students are only part of the chess club (C).
3 students are only part of the drama club (D).
5 students belong to all three clubs.
2 students are part of the art and chess clubs, but not the drama club.
15 students are part of the art and drama clubs, but not the chess club.
7 students are not part of any of the clubs.

b.
60 people were asked which fruits they liked.
40 people said they liked melons (M).
42 people said they liked pears (P).
25 people said they liked strawberries (S).
6 people said they liked all three fruits.
20 people said they liked melons and pears, but not strawberries.
10 people said they liked pears and strawberries, but not melons.
6 people said they liked melons and strawberries, but not pears.

4. Find the value of x , and then find the frequency of each region.

a.
150 students were asked whether they studied French or German.



b.
30 people were asked whether they had a dog (D) or a cat (C).

