

QUESTION:07

A camp of international students has 110 students, as shown in the diagram. The diagram will elaborate that all the students speak some kind of a language. We need to find out how many that speak none of them out of 110 students.

Find how many students speak

- a. English and Spanish but not French?
- b. Neither English, Spanish, nor French?
- c. French, but neither English nor Spanish?
- d. Only one of the three languages?
- e. Exactly two of the three languages?

INPUT:

```
from math import*
total_students=set(range(0,110))
speak_only_eng=set(range(0,25))
speak_only_spanish=set(range(0,10))
speak_only_french=set(range(0,11))
speak_all=set(range(0,13))
eng_and_spanish=set(range(0,20))
eng_and_french=set(range(0,17))
spanish_and_french=set(range(0,9))
print(len(eng_and_spanish)," students can speak english and spanish but not french")
print(len(total_students)-len(speak_only_eng)-len(speak_only_spanish)-len(speak_only_french)-
len(speak_all)-len(eng_and_spanish)-len(eng_and_french)-len(spanish_and_french),"students can
speak none of the above languages")
print(len(speak_only_french),"students can speak french but neither english nor spanish")
print(len(speak_only_eng)+len(speak_only_spanish)+len(speak_only_french),"students can speak
only one of the three languages")
print(len(eng_and_spanish)+len(eng_and_french)+len(spanish_and_french),"students can speak
exactly two of the three languages")
```

OUTPUT:

20 students can speak english and spanish but not french
5 students can speak none of the above languages
11 students can speak french but neither english nor spanish
46 students can speak only one of the three languages
46 students can speak exactly two of the three languages
Process finished with exit code 0