A survey was conducted among the students of Grade 8 to find their favorite music genres.
- Twenty-two students like rock music;
- 35 students enjoy jazz;
- 29 students like hip hop;
- 5 students enjoy rock and jazz music but not hip hop;
- 3 students like rock and hip hop but not jazz;
- 7 students enjoy jazz and hip hop but not rock music; and
- 4 students like all three genres of music.

**Questions**

a) How many students appreciate hip hop and rock styles of music?

b) Find the number of students in all that were surveyed.

c) How many students enjoy rock and jazz music?

d) How many students listen to at least 2 out of the three genres of music?

e) Find the number of students who enjoy hip hop and jazz.

f) How many students listen to either rock or hip hop music?

g) List the number of students who prefer only hip hop.

h) List down the number of students who are diehard fans of rock music.
Draw Venn diagram based on the data provided and answer the questions that follow.

1) A survey was conducted among the students of Grade 8 to find their favorite music genres.
   - Twenty-two students like rock music;
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   - 7 students enjoy jazz and hip hop but not rock music; and
   - 4 students like all three genres of music.

a) How many students appreciate hip hop and rock styles of music?
   ____________________________
   7 students

b) Find the number of students in all that were surveyed.
   ____________________________
   63 students

c) How many students enjoy rock and jazz music?
   ____________________________
   9 students

d) How many students listen to at least 2 out of the three genres of music?
   ____________________________
   19 students

e) Find the number of students who enjoy hip hop and jazz.
   ____________________________
   11 students

f) How many students listen to either rock or hip hop music?
   ____________________________
   44 students

g) List the number of students who prefer only hip hop.
   ____________________________
   15 students

h) List down the number of students who are diehard fans of rock music.
   ____________________________
   10 students

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