Name_____   Date_____

Use the line plot to answer the questions below.

Favorite Kinds of Music in Dan Druff's 3rd Grade Class
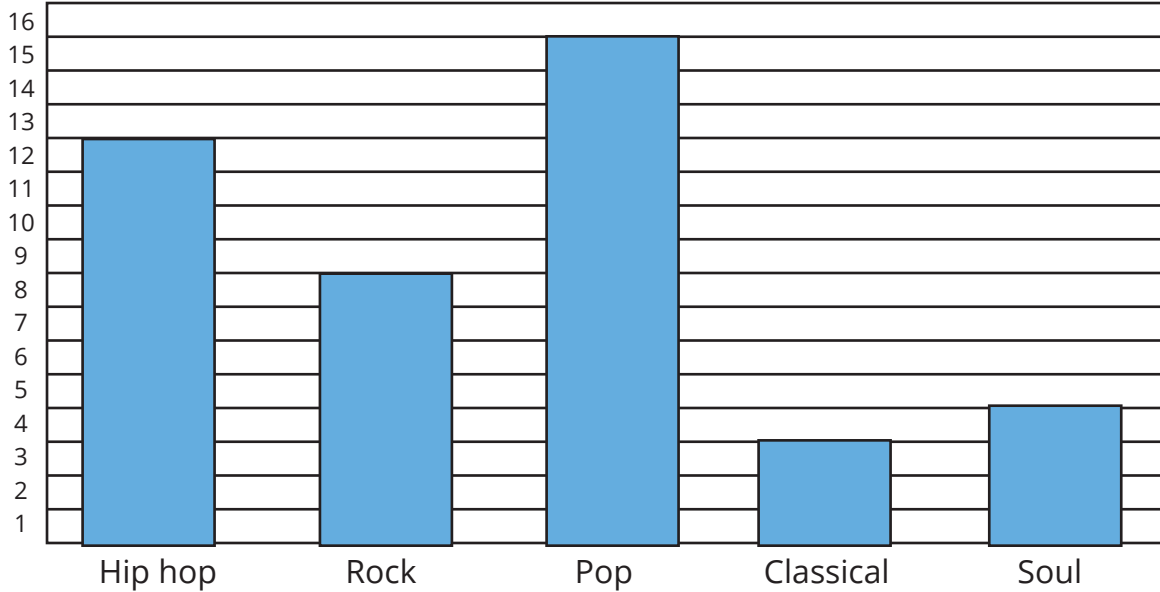
Answers

1. If all students in the class voted, how many students are there in the class? _____42_____

2. What is the most popular type of music? _____Pop_____

3. How many more people favor hip hop over classical? _____9_____

4. Think about these questions and write your predictions.

a. If another category was added to the survey, how do you think the graph would change?

Sample responses: Some of the votes would move to the new category. It depends on the category.

b. How do you think the graph would change if the new category was opera?

Sample response: That new category would probably have zero votes and the rest would stay the same.

c. How about if the new category was ? Explain your reasoning.

Some of the votes from other categories might move to the new category.

_____

5. What if there were four kids who were absent and didn't vote, and when they came back and voted their favorite types of music weren't listed as a choice. What are some of the ways we could represent their choices?

You could make a category called "other" or make new bars representing their choices.

6. In the graph, each horizontal line makes the bar taller by one vote. If each line represented TWO students' votes, how would that change the graph?

The bars would be shorter.

7. How could an odd number be represented if each line represents two votes?

You could extend the bar half way between two lines.

8. If you were going to do a follow-up survey, what question might you ask to get more information about favorite music?

Sample responses:

Who is your favorite singer?

What is your favorite radio station?

Do you listen to the same music your parents/caregivers listen to?

How do you learn about new songs?

9. Write two conclusions you can make from this graph.

a. Classical and soul are the least favorite types of music in this class.

b. Hip hop and pop are by far the most popular types of music.