

Name: _____ Period: _____ Date: _____

Frequency and Histogram Bell Work

Solve problems involving frequency distribution table and histogram.

The following are the scores of the students in science quiz

10	7	5	12	12
9	6	14	2	11
7	8	3	1	8
5	15	7	13	9

1. Find the range of the following data.
2. How many intervals can be made of the following data?
3. Find the class size.
4. Construct a Frequency Distribution Table.

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5. What is/are the most frequent classes according to the table?

6. What is/are the least frequent classes according to the table?

7. What is the difference between the most frequent classes from the second most frequent classes?

8. If the passing score is 7 how many failed the quiz?

9. If the passing score is 7 how many passed the quiz?

10. Construct a frequency histogram of the data in the frequency distribution table.

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Answer:

Solve problems involving frequency distribution table and histogram.

The following are the scores of the students in science quiz

10	7	5	12	12
9	6	14	2	11
7	8	3	1	8
5	15	7	13	9

1. Find the range of the following data.

$$R = 15 - 1 = 14$$

2. How many intervals can be made of the following data?

$$N = 1 + 3.3 \log (20) = 5.29 \text{ or } 5$$

3. Find the class size.

$$i = 14/5 = 2.8 \text{ or } 3$$

4. Construct a Frequency Distribution Table.

Classes	Frequency
1-3	3
4-6	3
7-9	7
10-12	4
13-15	3

5. What is/are the most frequent classes according to the table?

The most frequent classes is 7-9 with a frequency of 7.

6. What is/are the least frequent classes according to the table?

The least frequent are classes 1-3, 4-6 and 13-15 with a frequency of 3 for both them.

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7. What is the difference between the most frequent classes from the second most frequent classes?

The frequency of the most frequent classes is 7 while the next after it is 4, the difference is 3.

8. If the passing score is 7 how many failed the quiz? 6

9. If the passing score is 7 how many passed the quiz? 14

10. Construct a frequency histogram of the data in the frequency distribution table.

