

Name: _____ Period: _____ Date: _____

Frequency and Histogram Assignment

Solve problem involving frequency distribution table and histogram.

The following data are the scores of the class G students in English Quiz.

20	19	18	19	17
7	15	16	10	15
25	3	17	9	14
24	9	13	8	12
23	5	14	16	17

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

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Frequency and Histogram Assignment

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 13 how many failed the quiz?

9. If the passing score is 17 how many passed the quiz?

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

Name: _____ Period: _____ Date: _____

Frequency and Histogram Assignment

The following are the mathematics grade of class F.

90	81	96	82	81
95	80	98	83	85
91	78	94	82	84
82	76	85	85	88
83	75	86	86	87

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

Name: _____ Period: _____ Date: _____

Frequency and Histogram Assignment

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 median score is 86, How many make it to the upper 50% of the class?

9. If the median score is 86, How are below 50% of the class?

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

Name: _____ Period: _____ Date: _____

Frequency and Histogram Assignment

Answer:

Solve problem involving frequency distribution table and histogram.

The following data are the scores of the class G students in English Quiz.

20	19	18	19	17
7	15	16	10	15
25	3	17	9	14
24	9	13	8	12
23	5	14	16	17

1. Find the range of the following data.

$$R = 25 - 3 = 22$$

2. How many intervals can you make of the following data?

$$n = 1 + 3.3 \log(25) = 5.61 \text{ or } 6$$

3. Find the class size.

$$i = 22/6 = 3.67 \text{ or } 4$$

4. Construct a Frequency Distribution Table.

Classes	Frequency
1-4	1
5-8	3
9-12	4
13-16	7
17-20	7
21-24	2
25-28	1

Frequency and Histogram Assignment

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

The most frequent classes are 13-16 and 17-20 with a frequency of 7 for both of them.

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

The least frequent are classes 1-4 and 25-28 with a frequency of 1 for both them.

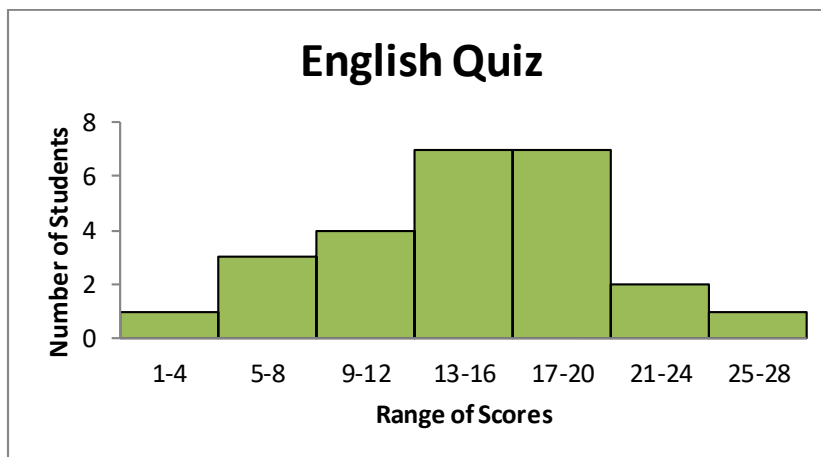
7. What is the difference between the most frequent classes from the second most frequent classes?

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 13 how many failed the quiz? 8

9. If the passing score is 17 how many passed the quiz? 10

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



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Frequency and Histogram Assignment

The following are the mathematics grade of class F.

90	81	96	82	81
95	80	98	83	85
91	78	94	82	84
82	76	85	85	88
83	75	86	86	87

1. Find the range of the following data.

$$R = 92 - 75 = 23$$

2. How many intervals can make of the following data?

$$n = 1 + 3.3 \log(30) = 5.87 \text{ or } 6$$

3. Find the class size.

$$i = 23/6 = 3.8 \text{ or } 4$$

4. Construct a Frequency Distribution Table.

Classes	Frequency
75-78	3
79-82	6
83-86	8
87-90	3
91-94	2
95-98	3

Frequency and Histogram Assignment

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

The most frequent classes is 83-86 with a frequency of 8.

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

The least frequent are classes 75-78 and 95-98 with a frequency of 3 for both them.

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

The frequency of the most frequent classes is 8 while the next after it is 6, the difference is 2.

8. If the median score is 86, How many make it to the upper 50% of the class?

The number students make it to the upper 50% is 8.

9. If the median score is 86, How are below 50% of the class?

The number of students below 50% are 9.

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

