



الاسم : الرقم : الشعبة : المدرّس :

Question One: (2.0 points each). Write the correct answer for each of the following in the table provided. Only the answers in the table will be graded.

1	2	3	4	5	6

- The **TRUE** statement in the following is
 - The variance cannot be negative.
 - The population is a subset from the sample.
 - The mode of the data 2, 5, 5, 3, 2, 3 is 2, 3 and 5.
 - The sum of the relative frequencies in any frequency distributions is not 1.

- Which one of the following is a **qualitative** data?

- Hair color لون الشعر
- Ages الأعمار
- Weights الأوزان
- Blood pressure ضغط الدم

- If the mean of the following data is $\bar{x} = 44$, then the value of **b** is

- 7
- 3
- 2
- 6

stem	leaf
3	7
4	1 b 5 5 8
5	0

Key: 4 | 5 = 45

- The mean of 12 numbers is 6, and the mean of 8 other numbers is 16, then the mean of the 20 numbers together is
 - 9
 - 10
 - 11
 - 8

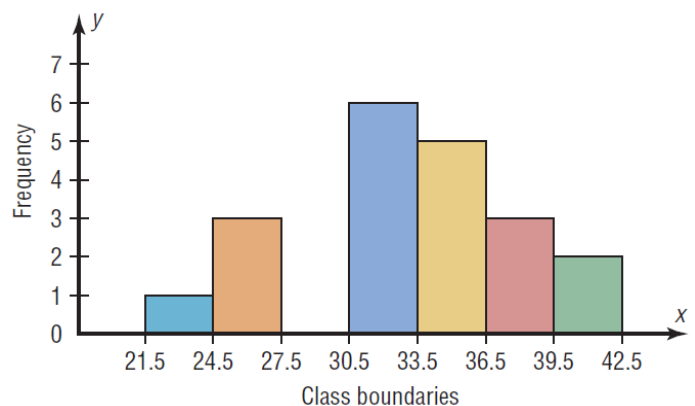
- The **median** for the following frequency distribution is

- 4.5
- 3.5
- 5.5
- 6.5

Class (Values)	2	3	4	5
Frequency	2	2	2	6

- Given the histogram shown below, the sample size is

- 6
- 18
- 7
- 20



Question Two: (1+1+2+1+1 points)

Consider the following set of **continuous** data.

1	2	3	4	5	5
5	6	6	7	7	7
7	7	8	8	8	8
8	9	9	9	10	10

1. Find the **range** of the data.
2. If there are **4 classes** in the frequency distribution of the data, find the **class width**.
3. Construct (أنشئ) a frequency distribution for the data using **4 classes**.

Class	Frequency

4. Find the relative frequency of the second class.
5. Find the cumulative frequency of the third class.

Question Three: (4 points)

For a set of $n=9$ numbers, $\sum (x - \bar{x})^2 = 48$ and $\sum (x^2) = 489$. Find the mean of the numbers.