

## Question #66418, Math / Statistics and Probability

A survey on a sample of students taking elementary Statistics was conducted. The data shown in Table 1 represents the current semester of each student. Please take note 1=Semester 1, 2=Semester 2, 3=Semester 3, 4=Semester 4, and 5=Other semester.

Table 1 / Jadual 1

4	3	3	2	2	1	2	3
2	1	1	2	4	5	3	3
2	1	3	2	4	1	1	2
3	4	2	2	1	2	1	2
1	3	2	2	1	1	4	3
4	5	1	3	4	3	2	1
1	2	2	1	1	2	1	3
3	2	1	1	1	2	1	4

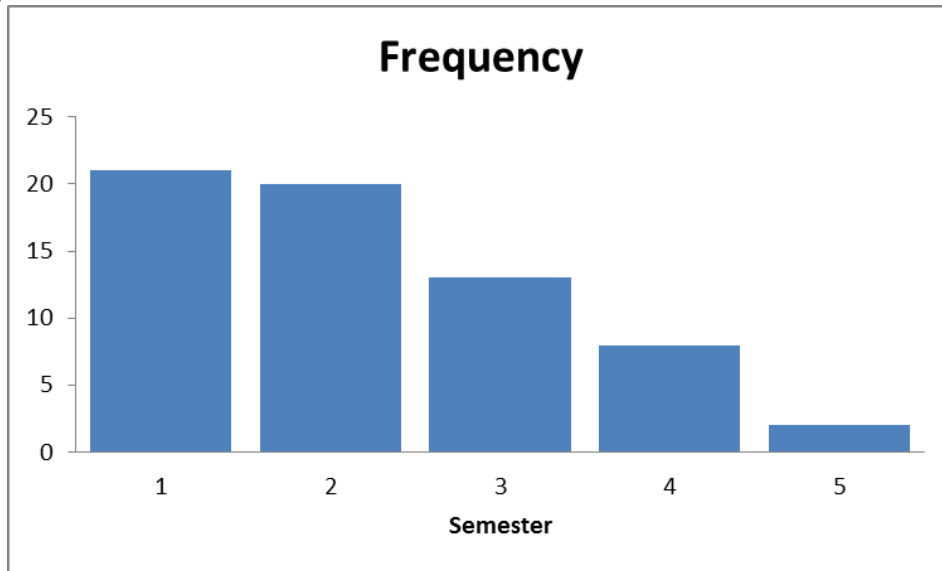
- Construct a frequency and relative frequency distribution table of the student's (4) Semester of study.
- Construct a bar chart based on the frequency table in (a). (4)
- Hence given your comments based on the bar chart obtained in (b) (2)

**Answer.**

a) Relative frequency  $r = \frac{f}{64}$ .

Semester	Frequency	Relative frequency
1	21	0.328125
2	20	0.3125
3	13	0.203125
4	8	0.125
5	2	0.03125

**b)**



**c) The distribution is unimodal (has with one clear peak or most frequent value), right skewed (right tail is longer).**

Answer provided by <https://www.AssignmentExpert.com>