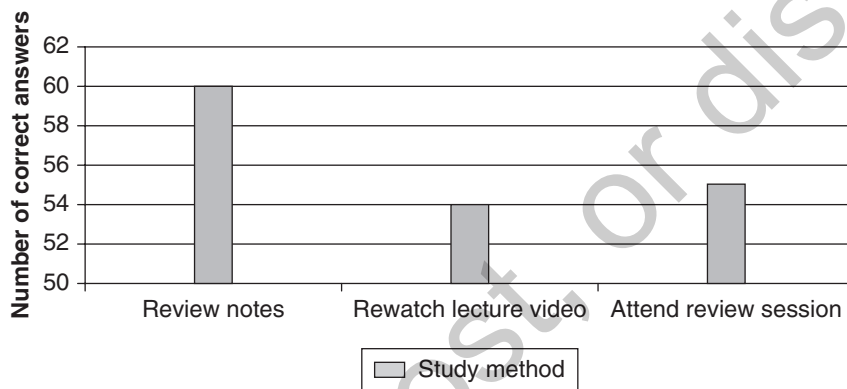


30. Misleading Graphs Exercise

Graphs are powerful statistical tools that can help reveal patterns in datasets. However, like any tool, they are sometimes used inappropriately, which can lead to incorrect interpretations of the data.

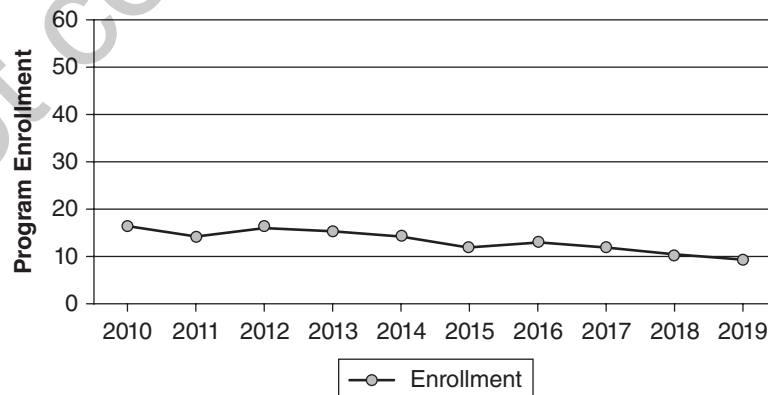
For each of the following graphs

1. What is the likely conclusion drawn from the graph?
2. Are there design features of the graph that may bias this conclusion? Is so, what are those features and how might they be changed to reduce this biased conclusion?



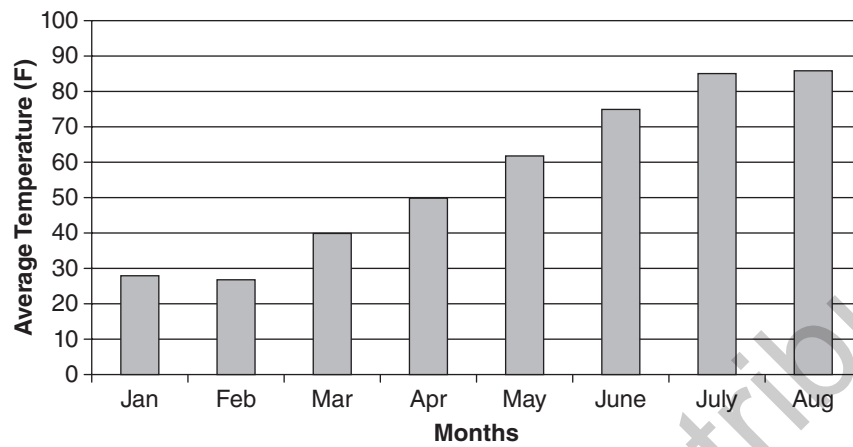
Graph 1 Examine this graph, which plots exam performance (in terms of number of correct answers) and method of studying used for the exam.

- 1.
- 2.



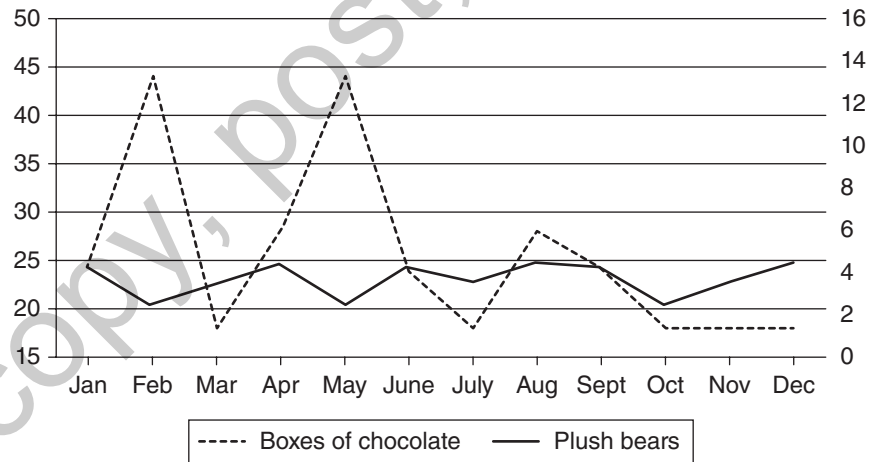
Graph 2 Examine this graph, which shows program enrollment over a decade.

- 1.
- 2.



Graph 3 Examine this graph, which shows the relationship between average temperature and time of year.

- 1.
- 2.



Graph 4 Examine this graph, which shows sales figures at a gift shop.

- 1.
- 2.