

Marks

Question 18 (4 marks)

Investigators gathered data on a group of 100 smokers for a period of 10 years. During this time 12 people in the group developed lung cancer, two died in traffic accidents, and three died of heart attacks. The investigators used this data to state that smoking caused lung cancer.

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Describe how this investigation could be improved.

This investigation should be run again as 12 people out of one hundred could easily be just a coincidence and probably not all were a direct result from smoking, after all, many people who smoke don't become sick, and many people who get lung cancer don't smoke. However this data could show that smoking can be related to lung cancer.