

**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.

**4**

Describe how this investigation could be improved.

While the investigators collected data on the ~~100~~ smokers, they should have simultaneously collected data on 100 non-smokers and documented their deaths & causes. The non-smokers would have been a source of comparison. Furthermore, the smokers & non smokers should have been grouped into age & sex groups.