

**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.

The investigation could be improved by grouping together 50 smokers and 50 non-smokers and then gathering data on their health and comparing the two groups after a period of 5-10 years.