

REVIEW IT!

Statistics

 You may **not** use a calculator for these questions.

- 1** Henry carries out a survey about people's favourite TV programme. He asks 10 of his friends.

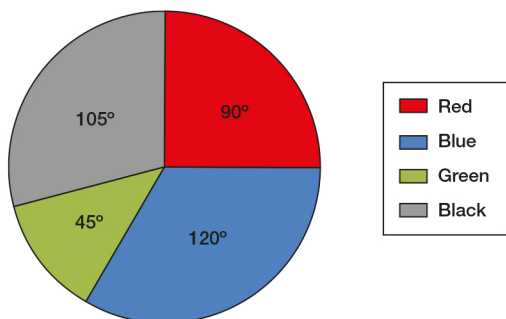
Give two reasons why his sample is biased.

- 2** India carried out a survey of 20 students to find out what their favourite pizza toppings were.

The table gives information about her results.

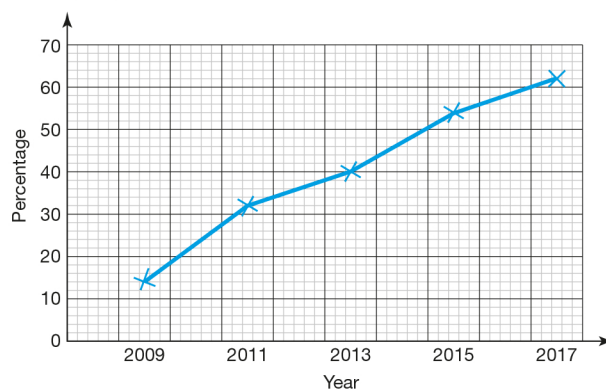
Topping	Frequency
Margherita	11
Vegetarian	2
Hawaiian	6
Pepperoni	1

- a** Which topping is the mode?
- b** In India's survey, what percentage of people like pepperoni best?
- c** India is going to draw a pie chart to display her information. What angle should the sector for pepperoni be?
- 3** The pie chart below shows the colour of electric cars sold by a garage one year.



- a** What fraction of the cars sold were red?
60 green cars were sold.
- b** How many cars does the whole pie chart represent?
- c** How many black cars were sold?

- 4** The graph gives information about the percentage of people who do their grocery shopping online.



- a** Describe the trend in the percentage of people who do their grocery shopping online.
- b** Use your graph to predict the percentage of people who will shop online in 2019.
- c** Is your prediction reliable? Explain your answer.
- 5** The mean, median, mode and range of a set of four numbers is calculated.

$$\text{Mean} = 6$$

$$\text{Mode} = 7$$

$$\text{Median} = 7$$

$$\text{Range} = 6$$

Which of the following statements are true?

- a** All of the numbers are positive.
- b** At least one of the numbers is 7.
- c** Two of the numbers are 7.
- d** Three of the numbers are 7.