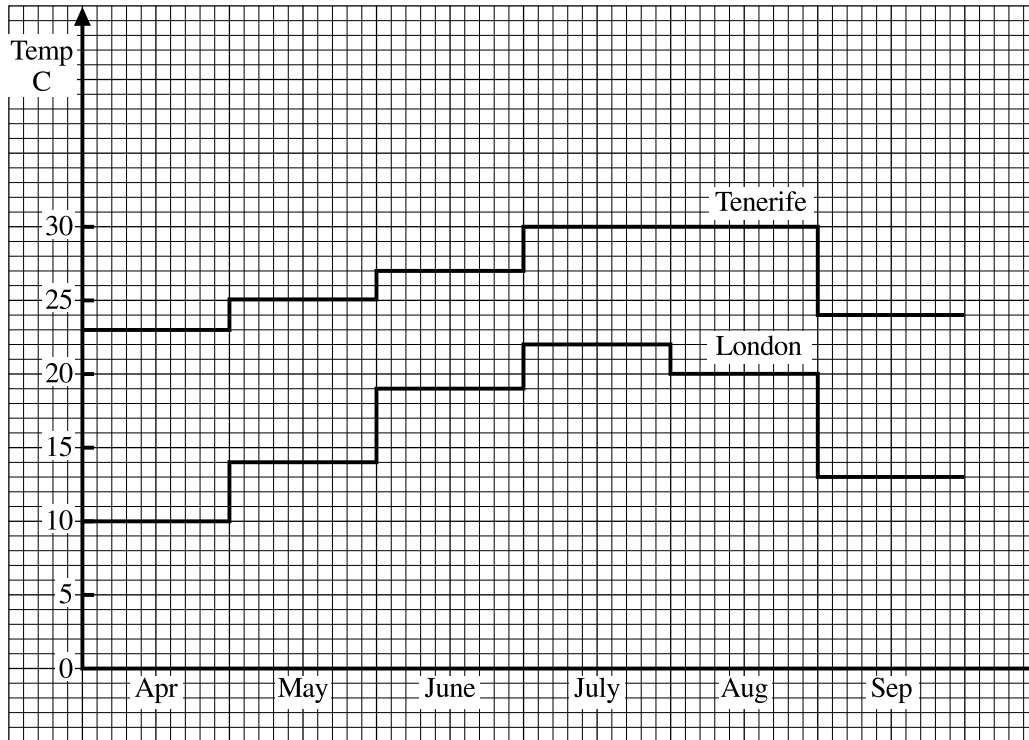


Question 1



The diagram shows the average midday temperature in London and in Tenerife during the summer months.

- During which months is the average midday temperature normally the highest in Tenerife? **(1 mark)**
- During which month is there the greatest difference between the average midday temperature between London and Tenerife? **(1 mark)**
- Write down the average midday temperature for London in May. **(1 mark)**
- Work out the mean average midday temperature for June to August in Tenerife. **(2 marks)**

You can exchange £1 for 189 pesetas in Tenerife.
A large bottle of sun lotion costs 1375 pesetas.

- Change 1375 pesetas into pounds and pence. Give your answer correct to the nearest penny. **(3 marks)**

Question 2

There are 50 pupils in each of the groups, Year 9, Year 10 and Year 11 at Lucea High School.

A survey was carried out to find how many pets these pupils owned.

The results are shown in the table below.

Number of pets	Year 9	Year 10	Year 11
0	2	5	32
1	29	22	11
2	14	19	6
3	5	4	1
4	1	0	0

- (a) How many pupils in Year 10 own no pets?
- (b) How many of the pupils own exactly 2 pets?
- (c) What is the most common number of pets owned by pupils?
- (d) Which year group owns the least number of pets? Use the figures to explain your answer.

Question 3

A set of 25 times in seconds is recorded.

12.9 10 4.2 16 5.6 18.1 8.3 14 11.5 21.7
 22.2 6 13.6 3.1 11.5 10.8 15.7 3.7 9.4 8
 6.4 17 7.3 12.8 13.5

(a) Complete the frequency table below, using intervals of 5 seconds.

Time (t) seconds	Tally	Frequency
$0 \leq t < 5$		

(b) Write down the modal class interval.

Question 4

Bill carries out a survey of the colours of cars people buy.
He makes a list of the colours of the 20 cars in the school car park.
Here is a list of the colours of the 20 cars.

Red	Red	Red	Blue	White
White	Blue	Red	Green	Green
Red	White	Green	Red	White
Red	Green	Red	White	White

(a) Complete the frequency table below.

(2 marks)

Colour of car	Tally	Frequency
Red		
Blue		
White		
Green		

(b) Draw a bar chart for this information.

(3 marks)

(c) Write down the colour of car which is the mode.

(1 mark)

Question 5

Annie and Billy take part in a competition.

Annie fires at the target ten times.

Her scores are

8 8 9 5 6 6 5 8 8 6

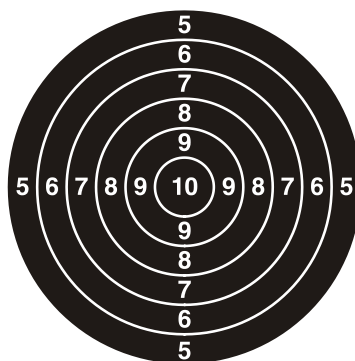
(a) Work out

(i) the range of scores,

(ii) the mean of her scores.

(4 marks)

The diagram shows a target.



Billy fires at the target ten times.

The frequency table gives information about his scores.

Score	Frequency
5	2
6	1
7	3
8	1
9	2
10	1

(b) Write down his modal score.

(1 mark)

(c) Work out his total score.

(2 marks)

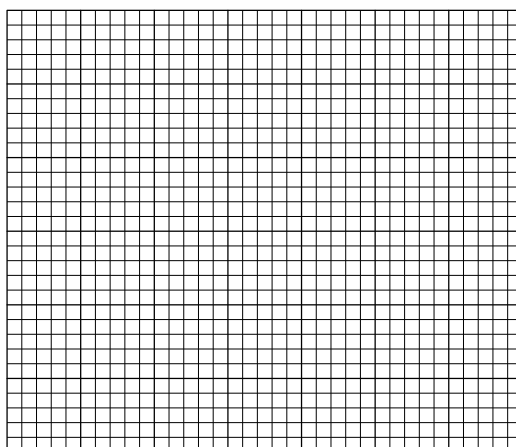
Question 6

A farmer has 40 hens.

The table shows the number of eggs laid by the hens.

Number of eggs	Frequency
0	2
1	8
2	9
3	11
4	6
5	4

(a) Draw a bar chart to show this information



(b) Work out the number of hens which laid 3 eggs or more.

(1 mark)

(c) Write down the mode.

(1 mark)

Question 7

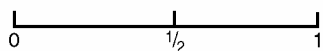
Here are the numbers of people living in the different houses in a short road.

4, 2, 3, 4, 5, 1, 3, 2

- (a) Work out the mean number of people per house.
- (b) Work out the range of the number of people living in a house.

One of the houses is to be chosen at random.

- (c) On the probability line below, mark with a letter X the probability that the house chosen will be the one with 5 people.



Question 8

Hemlata measured the lengths of 12 different leaves that she collected for a Science experiment. Here are her results.

15 cm, 12 cm, 9 cm, 10 cm, 9 cm, 7 cm
14 cm, 10 cm, 8 cm, 9 cm, 12 cm, 6 cm

- (a) For the leaves Hemlata collected work out the
- i) mean
 - ii) mode
 - iii) range
 - iv) median
- (b) Write down the probability that a leaf chosen at random from Hemlata's collection has a length
- i) equal to 10 cm
 - ii) less than 10 cm.

Question 9

Edwina had 5 boxes of matches.
She counted the number of matches in each box.
Here are the numbers

28, 30, 31, 28, 27

- (a) Work out the mean number of matches per box. **(3 marks)**
(b) Work out the range of Edwina's numbers. **(2 marks)**

Question 10

Twenty five people took part in a competition.
The points scored are grouped in the frequency table below.

Points scored	Number of people
1 to 5	1
6 to 10	2
11 to 15	5
16 to 20	7
21 to 25	8
26 to 30	2

Write down the modal class of points scored. **(1 mark)**

Question 11

Mrs Chowdery gives her class a maths test.
Here are the test marks for the girls.

7, 5, 8, 5, 2, 8, 7, 4, 7, 10, 3, 7, 4, 3, 6

- (a) Work out the mode. **(1 mark)**
 (b) Work out the median. **(2 marks)**

The median mark for the boys was 7 and the range of the marks of the boys was 4. The range of the girls' marks was 8.

- (c) By comparing the results explain whether the boys or girls did better in the test. **(2 marks)**

Question 12

Ten teams took part in a quiz.
Their scores are shown below.

15, 13, 17, 11, 14, 15, 16, 15, 16, 8.

Work out the mean score.

Question 13

22 coloured balls are used to play a game of snooker.
15 of them are red and the rest have different colours.
One of the balls is chosen at random.

Write down the probability that the ball chosen will be

- i) red,
- ii) not red.

Question 14

Nicky recorded the numbers of people getting off her bus at 10 stops.
Here are her results.

2 4 3 6 3 6 3 7 11 8

For these 10 numbers, work out

- (a) the mean, **(3 marks)**
- (b) the median, **(2 marks)**
- (c) the range. **(2 marks)**

Question 15

Here are nine numbers

7 3 4 9 3 9 3 3 4

- (a)** Find the mode. **(1 mark)**
- (b)** Find the median. **(2 marks)**
- (c)** Find the range. **(1 mark)**
- (d)** Find the mean. **(3 marks)**