Questions

Q1.

The table shows information about the marks of 20 students in a science test.

Mark	Frequency
6	2
7	4
8	5
9	8
10	1

Work out the mean mark of the 20 students.

.....

(Total for question = 3 marks)

Q2.

The table gives information about the numbers of goals scored by a football team in 30 matches.

Number of goals scored	Frequency
0	2
1	10
2	7
3	6
4	3
5	2

(a) Find the median number of goals scored.

.....

(2)

(b) Find the mean number of goals scored.

.....

(3)

(Total for Question is 5 marks)

Q3.

The table shows information about the number of peas in each of 25 pods.

Number of peas	1	2	3	4	5	6
Number of pods	3	6	5	8	2	1

(a) Find the mode of the number of peas.

.....

(1)

(b) Work out the range of the number of peas.

.....

(2)

(c) Work out the mean number of peas in the 25 pods.

.....

(3)

(d) Tariq puts the 25 pods in a bag.
He takes at random one of the pods.

Find the probability that he takes

(i) a pod with 7 peas,

.....

(ii) a pod with 5 peas,

.....

(iii) a pod with 3 peas or a pod with 4 peas.

.....

(5)

(Total for question = 11 marks)

Q4.

The table shows information about the numbers of goals scored by some football teams last week.

Number of goals	Number of teams
0	5
1	8
2	2
3	3
4	2

Work out the total number of goals scored by these football teams last week.

.....

(Total for question = 2 marks)

Q5.

The table shows information about the times, in minutes, taken by 50 people to get to work.

Time taken (t minutes)	Frequency
$0 < t \leqslant 10$	6
$10 < t \leqslant 20$	10
$20 < t \leqslant 30$	19
$30 < t \leqslant 40$	15

Work out an estimate for the mean time taken to get to work.

..... minutes

(Total for Question is 4 marks)

Q6.

The table shows information about the weights of 80 parcels.

Weight (w kg)	Frequency
$0 < w \leqslant 2$	8
$2 < w \leqslant 4$	14
$4 < w \leqslant 6$	26
$6 < w \leqslant 8$	17
$8 < w \leqslant 10$	10
$10 < w \leqslant 12$	5

Work out an estimate for the total weight of the 80 parcels.

.....kg

(Total for question = 3 marks)

Q7.

The table shows information about the snowfall in Ottawa in January one year.

Snowfall (s cm)	Number of days
$0 \leqslant s < 2$	19
$2 \leqslant s < 4$	8
$4 \leqslant s < 6$	3
$6 \leqslant s < 8$	0
$8 \leqslant s < 10$	1

Work out an estimate for the total snowfall in January.

..... cm

(Total for question = 3 marks)

Q8.

The table shows information about the amount of money, in dollars, spent in a shop in

one day by 80 people.

Money spent (x dollars)	Frequency
$0 < x \leqslant 20$	24
$20 < x \leqslant 40$	20
$40 < x \leqslant 60$	9
$60 < x \leqslant 80$	12
$80 < x \leqslant 100$	15

Work out an estimate for the total amount of money spent in the shop that day.

.....dollars

(Total for question = 3 marks)

Q9.

Loma grows tomatoes in her garden.

The table shows information about the weights, in grams, of some of her tomatoes.

Weight of tomato (w grams)	Number of tomatoes
$0 < w \leqslant 10$	2
$10 < w \leqslant 20$	8
$20 < w \leqslant 30$	16
$30 < w \leqslant 40$	10
$40 < w \leqslant 50$	4

Work out an estimate for the total weight of these tomatoes.

..... grams

(Total for Question is 3 marks)

Q10.

A school has 60 teachers.
The table shows information about the distances, in km, the teachers travel to school each day.

Distance (d km)	Frequency
$0 < d \leqslant 5$	12
$5 < d \leqslant 10$	6
$10 < d \leqslant 15$	4
$15 < d \leqslant 20$	6
$20 < d \leqslant 25$	14
$25 < d \leqslant 30$	18

(a) Write down the modal class.

.....

(1)

(b) Work out an estimate for the total distance travelled to school by the 60 teachers each day.

..... km

(3)

(Total for question = 4 marks)

Q11.

The table shows information about the numbers of text messages sent by 40 teenagers in one day.

Number of text messages	Number of teenagers	Mid-interval value	
0 to 2	3	1	
3 to 5	6	4	
6 to 8	10		
9 to 11	15		
12 to 14	5		
15 to 17	1		

(a) Write down the modal class.

.....

(1)

(b) Work out an estimate for the mean number of texts sent by the 40 teenagers in one day.

.....

(4)

(Total for question is 5 marks)

Q12.

The table gives information about the number of vehicles passing a point on a road in each of 70 intervals of equal length.

Number of vehicles	Frequency
1 to 5	8
6 to 10	10
11 to 15	18
16 to 20	20
21 to 25	10
26 to 30	4

Calculate an estimate for the mean.

.....

(Total for question = 4 marks)