

Statistical Measures

Question Paper 1

Level	IGCSE
Subject	Maths
Exam Board	Edexcel
Topic	Handling Data Statistics
Sub Topic	Statistical Measures(Mean, Median, Mode)
Booklet	Question Paper 1

Time Allowed: 59 minutes

Score: /49

Percentage: /100

Grade Boundaries:

A*	A	B	C	D	E	U
>85%	75%	70%	60%	55%	50%	<50%

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1 Six numbers have a mean of 5

Five of the numbers are

3 2 7 6 2

The other number is x .

Work out the value of x .

$x = \dots\dots\dots$

(Total for Question 1 is 3 marks)

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

.....

(ii) Explain why your answer to part (b)(i) is an estimate.

.....
.....
(5)

(Total for Question 2 is 6 marks)

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- 3** Three positive whole numbers have a median of 7 and a mean of 5
Find the range of these three numbers.

.....
(Total for Question 3 is 3 marks)

- 4** Three positive whole numbers have a mean of 4 and a range of 7
Find the three positive whole numbers.

.....
(Total for Question 4 is 2 marks)

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- 5** A group of students take a test.
The group consists of 12 boys and 8 girls.
The mean mark for the boys is 18
The mean mark for the girls is 16.5

Calculate the mean mark for the whole group.

.....

(Total for Question 5 is 4 marks)

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

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

Work out an estimate for the total snowfall in January.

..... cm

(Total for Question 6 is 3 marks)

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7 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
$0 < d \leq 5$	12
$5 < d \leq 10$	6
$10 < d \leq 15$	4
$15 < d \leq 20$	6
$20 < d \leq 25$	14
$25 < d \leq 30$	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 7 is 4 marks)

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8 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 8 is 3 marks)

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- 9 The table shows information about the mark scored on an examination question by each of 40 students.

Mark	Number of students
0	13
1	2
2	3
3	8
4	14

Work out the mean mark.

.....
(Total for Question 9 is 3 marks)

10 The table shows information about the time, in minutes, spent on homework by each of 32 pupils in one night.

Time (t minutes)	Number of pupils
$0 < t \leq 20$	7
$20 < t \leq 40$	16
$40 < t \leq 60$	3
$60 < t \leq 80$	6

(a) Calculate the percentage of the 32 pupils who spent more than 60 minutes on their homework.

..... %
(2)

(b) Calculate an estimate for the total time spent on homework by the 32 pupils.

..... minutes
(3)

(Total for Question 10 is 5 marks)

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- 11 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
$0 < x \leq 20$	24
$20 < x \leq 40$	20
$40 < x \leq 60$	9
$60 < x \leq 80$	12
$80 < x \leq 100$	15

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

..... dollars

(Total for Question 11 is 3 marks)

12 The table shows information about the number of letters in the first name of each of 50 people.

Number of letters	Frequency
3	2
4	5
5	14
6	19
7	10

(i) Work out the mean number of letters in the first names of the 50 people.

.....

(ii) One more person joins the 50 people.
The mean number of letters in the first names of the 51 people is less than the mean number of letters in the first names of the 50 people.

Write down the greatest number of letters in the first name of the person who joins the group.

.....

(Total for Question 12 is 4 marks)

- 13** The table shows information about the number of goals scored in each of the 25 matches in a hockey tournament.

Number of goals	Number of matches
1	6
2	8
3	7
4	3
5	1

Work out the mean number of goals.

.....
(Total for Question 13 is 3 marks)

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- 14** 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

Find the mean number of goals scored.

.....
(Total for Question 14 is 3 marks)
