Statistics

June 2004 P2 Q10

10 Answer the whole of this question on a sheet of graph paper.

The ages of a sample of 40 students were recorded.

The results are given in the table below.

Age (x years)	$8 < x \le 10$	$10 < x \le 11$	$11 < x \le 12$	$12 < x \le 14$	$14 < x \le 16$	$16 < x \le 19$
Frequency	7	8	6	10	3	6

(c) Calculate an estimate of the mean age of the students.

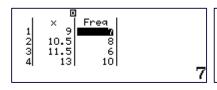
[3]

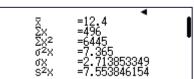
Solution:

If the frequency option is off, first we should turn it on.

Once you have turned the frequency on, go to statistics menu

after entering the data, press $\overline{\text{OPTN}}$ 3 to see the results. The first value is for mean. The sum of fx can be seen in $\sum x$ and $\sum f$ can be seen in n by navigating downwards.





June 2005 P2 Q5(a)

5 (a) Sweet packets contain sweets of different colours.

The number of yellow sweets in each of 25 packets was recorded.

The table below shows the results.

Number of yellow sweets	0	1	2	3	4	5
Frequency	8	5	5	4	2	1

For this distribution,

(i) write down the mode,

[1]

(ii) write down the median,

[1]

(iii) calculate the mean.

[2]

Solution:

If the frequency option is off, first we should turn it on.



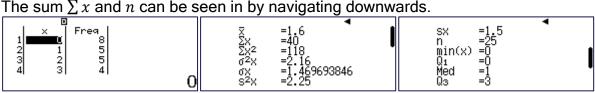
Once you have turned the frequency on, go to statistics menu MENU 6 1 9





after entering the data, press OPTN 3 to see the results. The first value is for mean.

The sum $\sum x$ and n can be seen in by navigating downwards.



December 2005 P2 Q4

Answer the whole of this question on a sheet of graph paper.

The table shows the number of cars owned by each of 25 families.

(a) Draw a bar chart to represent the information in the table.

[2]

- (b) Find
 - (i) the median number of cars,

[1]

the modal number of cars,

[1]

(iii) the mean number of cars.

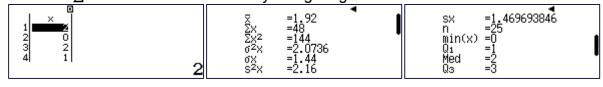
[1]

Solution:

Go to statistics menu and enter the data values

MENU 6 1 9

after entering the data, press OPTN 3 to see the results. The first value is for mean. The sum $\sum x$ and n can be seen in by navigating downwards.



June 2006 P2 Q10(b)

(b) Each member of a group of 16 children solved a puzzle. The times they took are summarised in the table below.

Time (t minutes)	$5 < t \le 10$	$10 < t \le 12$	$12 < t \le 14$	$14 < t \le 16$	$16 < t \le 20$
Frequency	2	4	6	3	1

- (i) Write down an estimate of the number of children who took less than 13 minutes. [1]
- (ii) Calculate an estimate of the mean time taken to solve the puzzle. [3]

Solution:

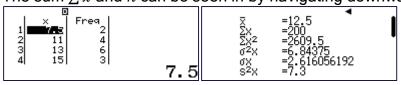
If the frequency option is off, first we should turn it on.

SHIFT MENU (3 1

Once you have turned the frequency on, go to statistics menu

MENU 6 1 9

after entering the data, press $\overline{\text{OPTN}}$ 3 to see the results. The first value is for mean. The sum $\sum x$ and n can be seen in by navigating downwards.



June 2007 P2 Q5 (a)

5 Emma noted the number of letters in each of the 25 words in an examination question. The results are given in the table below.

Number of letters	2	3	4	5	6	7	8
Frequency	2	6	5	5	4	0	3

- (a) For this distribution,
 - (i) write down the mode, [1]
 - (ii) find the median, [1]
 - (iii) calculate the mean. [2]

Solution:

If the frequency option is off, first we should turn it on.

SHIFT MENU (3 1

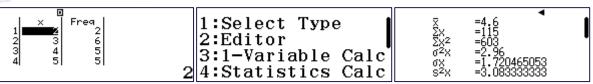
Once you have turned the frequency on, go to statistics menu (6) (1) (9)

after entering the data, press $\overline{\text{OPTN}}$ 3 to see the results. The first value is for mean. The sum $\sum x$ and n can be seen in by navigating downwards.



O Levels Mathematics Topical Revision & Past Papers Solution





November 2013 P2 Q2

2 (a) The results of a survey of the number of cars owned by 50 families are given in the table below.

Number of cars	0	1	2	3
Number of families	4	35	6	5

(i) Calculate the mean number of cars per family.

Solution:

If the frequency option is off, first we should turn it on.

Once you have turned the frequency on, go to statistics menu

after entering the data, press $\overline{\text{OPTN}}$ 3 to see the results. The first value is for mean. The sum $\sum x$ and n can be seen in by navigating downwards.

