

Mean

Median

Mode

Day	Visitors
1	275
2	352 501
3	501
4	444
5	513



1 The table shows information about the number of points scored in a game.

		_
Points	Frequency	
0	9	0
1	11	n
2	18	36
3	7	21
4	4	16
5	1	5
	50	29

Work out the mean number of points per game.

mean =
$$\frac{89}{50}$$
 = 1.78

1.78

(Total for question 1 is 3 marks)

2 The table shows information about the number of goals scored in a game by a football team.

Points	Frequency	
0	10	0
1	12	12 2x 21
2	x	2x
3	7	21
4 or more	0	0
		33+22

The team scored a total of 55 goals Find the value of x.

$$33 + 2x = 55$$
$$2x = 22$$
$$x = 11$$

11

(Total for question 2 is 3 marks)

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3 The table shows information about the number of goals a team scored in 38 games.

Points	Frequency	
0	7	0
1	14	14
2	11	22
3	6	18
4 or more	0	0

- (a) Find the median number of goals scored.
- (b) Write down the mode



(1)

(c) Work out the total number of goals the team scored in all 38 games.



4 Adam is measuring the heights in cm of his tomato plants.

Height (cm)	Frequency	
140 < h ≤ 150	145 7	1015
150 < h ≤ 160	155 10	1550
$160 < h \leqslant 170$	165 15	2475
$170 < h \leqslant 180$	175 19	3325
$180 < h \leqslant 200$	190 9	1710
agan haight	1	10075

(a) Estimate the mean height.

Give your answer correct to 1 decimal place.

167.9	cm
	(3)

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

Height are given in range and so we have to assume the data by taking the mid value.

5 Michael recorded the maximum temperature every day in September.

The table shows information about his results.

	Frequency	Temperature (°C)
64	4	14 < t ≤ 18
190	10	$18 < t \leqslant 20$
168	8	$20 < t \leqslant 22$
115	5	$22 < t \leqslant 24$
78	3	$24 < t \leqslant 28$
615		

Calculate an estimate for the mean maximum temperature.

20.5

6 The frequency table shows the time taken for 100 people to travel to an event.

1		
	Frequency	Time (minutes)
70	14	$0 < t \le 10$
240	16	10 < t ≤ 20
575	23	20 < t ≤ 30
1015	29	$30 < t \leqslant 40$
5५०	12	$40 < t \leqslant 50$
330	6	50 < t ≤ 60

(a) Find the percentage of people that travelled for more than 30 minutes to the event

(b) Find the class interval that contains the median.

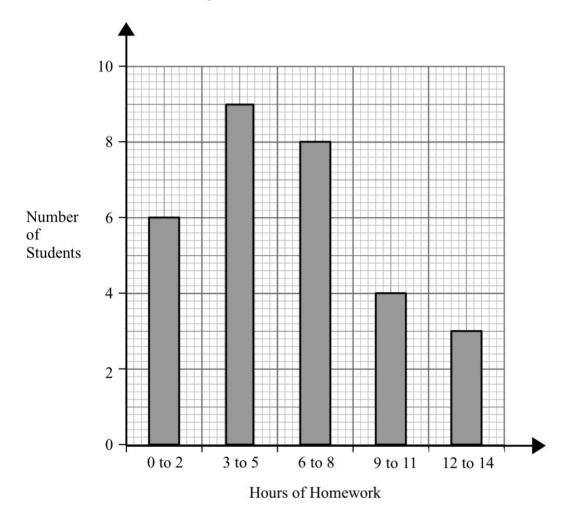
20 < t \ 30 minutes

(1)

(c) Find an estimate for the mean time taken for people to travel to the event.

27.7 minutes (3)

7 The bar chart shows how many hours of homework 30 students did last week.



Calculate an estimate for the mean number of hours of homework.

$$1 \times 6$$
 4×9
 36
 7×8
 56
 10×9
 13×3
 39
 177

..... hours

(Total for question 8 is 3 marks)