

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

Points	Frequency
0	9
1	11
2	18
3	7
4	4
5	1

Work out the mean number of points per game.

**(Total for question 1 is 3 marks)**

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

Goals	Frequency
0	10
1	12
2	$x$
3	7
4 or more	0

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

**(Total for question 2 is 3 marks)**

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

Goals	Frequency
0	7
1	14
2	11
3	6
4 or more	0

- (a) Find the median number of goals scored.  
(b) Write down the mode  
(c) Work out the total number of goals the team scored in all 38 games.

**(Total for question 3 is 4 marks)**

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

Height (cm)	Frequency
$140 < h \leq 150$	7
$150 < h \leq 160$	10
$160 < h \leq 170$	15
$170 < h \leq 180$	19
$180 < h \leq 200$	9

- (a) Estimate the mean height.  
Give your answer correct to 1 decimal place.  
(b) Explain why your answer to part (a) is an estimate.

**(Total for question 4 is 4 marks)**

- 5 The table below gives information about the time taken for 20 people to run 5 km.

Time (minutes)	Frequency
$15 < t \leq 20$	3
$20 < t \leq 25$	6
$25 < t \leq 30$	7
$30 < t \leq 40$	4

- (a) Find the class interval that contains the median.  
 (b) Work out an estimate for the mean time.

**(Total for question 5 is 4 marks)**

- 6 Michael recorded the maximum temperature every day in September. The table shows information about his results.

Temperature ( $^{\circ}\text{C}$ )	Frequency
$14 < t \leq 18$	4
$18 < t \leq 20$	10
$20 < t \leq 22$	8
$22 < t \leq 24$	5
$24 < t \leq 28$	3

Calculate an estimate for the mean maximum temperature.

**(Total for question 6 is 3 marks)**

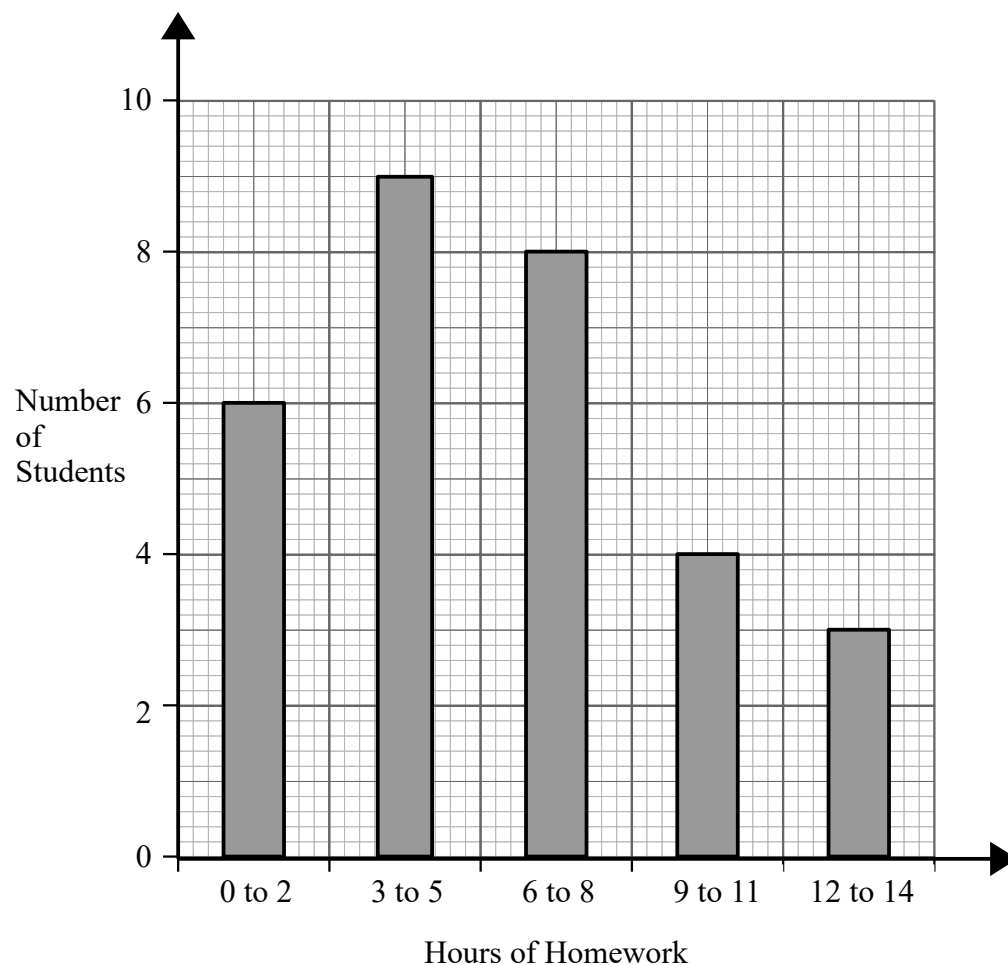
- 7 The frequency table shows the time taken for 100 people to travel to an event.

Time (minutes)	Frequency
$0 < t \leq 10$	14
$10 < t \leq 20$	16
$20 < t \leq 30$	23
$30 < t \leq 40$	29
$40 < t \leq 50$	12
$50 < t \leq 60$	6

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

**(Total for question 7 is 5 marks)**

- 8 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.

(Total for question 8 is 3 marks)