13 Bob asked each of 40 friends how many minutes they took to get to work.

The table shows some information about his results.

Time taken (*m* minutes)	Frequency
$0 < m \leqslant 10$	3
$10 < m \leqslant 20$	8
$20 < m \leqslant 30$	11
$30 < m \leqslant 40$	9
$40 < m \leqslant 50$	9

Work out an estimate for the mean time taken.

7 The table shows information about the number of hours that 120 children used a computer last week.

Number of hours	Frequency
$0 < h \leqslant 2$	10
$2 < h \leqslant 4$	15
$4 < h \leqslant 6$	30
$6 < h \leqslant 8$	35
$8 < h \leqslant 10$	25
$10 < h \leqslant 12$	5

Work out an estimate for the mean number of hours that the children used a computer.
Give your answer to 2 decimal places.

(4)

8. Bill recorded the times, in minutes, taken to complete his last 40 homeworks.

This table shows information about the times.

Time (t minutes)	Frequency	
$20 \leqslant t < 25$	8	
$25 \leqslant t < 30$	3	
$30 \leqslant t < 35$	7	
$35 \leqslant t < 40$	7	
$40 \leqslant t < 45$	15	

(a) Find the class interval in which the median lies.

....
(1)

(b) Calculate an estimate of the mean time it took Bill to complete each homework.

20. The table gives some information about the time taken by a group of 100 students to complete an IQ test.

Time (t seconds)	Frequency	
$60 < t \leqslant 70$	12	
$70 < t \leqslant 80$	22	
$80 < t \leqslant 90$	23	
$90 < t \leqslant 100$	24	
$100 < t \leqslant 110$	19	

(a) Write down the modal class interval.

....

(1)

(b) Calculate an estimate for the mean time taken by the students.

12. Sethina recorded the times, in minutes, taken to repair 80 car tyres.
Information about these times is shown in the table.

Time (t minutes)	Frequency		
$0 < t \leqslant 6$	15		
$6 < t \leqslant 12$	25		
$12 < t \leqslant 18$	20		
$18 < t \leqslant 24$	12		
$24 < t \leqslant 30$	8		

Calculate an estimate for the mean time taken to repair each car tyre.

14. The table gives information about the number of CDs sold in a shop during each of the last 30 weeks.

Number of CDs (n)	Frequency		
$0 < n \leqslant 40$	3		
$40 < n \leqslant 80$	5		
$80 < n \leqslant 120$	12		
$120 < n \leqslant 160$	7		
$160 < n \leqslant 200$	3		

Calculate an estimate for the mean number of CDs sold each week.
Give your answer correct to 1 decimal place.

11. Bianca asked 32 women about the number of children they each had.

The table shows information about her results.

Number of children	Frequency	
0	9	
1	6	
2	7	
3	8	
4	2	
more than 4	0	

(a) Find the mode.

....

(1)

(b) Calculate the mean.

10. Caleb measured the heights of 30 plants.

The table gives some information about the heights, *h* cm, of the plants.

Height (*h* cm) of plants	Frequency		
$0 < h \leqslant 10$	2		
$10 < h \leqslant 20$	8		
$20 < h \leqslant 30$	9		
$30 < h \leqslant 40$	7		
$40 < h \leqslant 50$	4		

Work out an estimate for the mean height of a plant.

17. Majid carried out a survey of the number of school dinners 32 students had in one week.

The table shows this information.

Number of school dinners	Frequency	
0	0	
1	8	
2	12	
3	6	
4	4	
5	2	

Calculate the mean.

....

(Total 3 marks)

18. The table shows some information about the heights (h cm) of 100 students.

Height (h cm)	Frequency		
$120 \leqslant h < 130$	8		
$130 \leqslant h < 140$	16		
$140 \leqslant h < 150$	25		
$150 \leqslant h < 160$	30		
$160 \leqslant h < 170$	21		

(a) Find the class interval in which the median lies.

....

(1)

(b) Work out an estimate for the mean height of the students.

10. The temperature (T °C) at noon at a seaside resort was recorded for a period of 60 days. The table shows some of this information.

Temperature (T °C)	Number of days
$10 < T \leq 14$	2
$14 < T \leq 18$	8
$18 < T \leq 22$	14
$22 < T \leq 26$	23
$26 < T \leq 30$	9
$30 < T \leq 34$	4

Calculate an estimate for the mean temperature at noon during these 60 days.
Give your answer correct to 3 significant figures.