Q1. (June 2018 v1)

25 40 people were asked how many times they visited the cinema in one month.
The table shows the results.

Number of cinema visits	0	1	2	3	4	5	6	7
Frequency	5	5	6	6	7	3	6	2

(a) (i) Find the mode.

..... [1]

(ii) Calculate the mean.

..... [3]

Q2. (June 2018 v2)

(b) Calculate the mean number of customers per day.

..... [2]

(c) Find the range of the number of customers.

..... [1]

Q3. (June 2019 v3)

7 The table shows the different methods of travel for 20 people going to work.

Method of travel	Frequency
Car	10
Walk	5
Bike	3
Bus	2

Which type of average, mean, median or mode, can be used for this information?

..... [1]

Q4. (June 2020 v1)

2 The table shows the temperature, in °C, at midday on the first day of each month during one year in a city.

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
9	11	15	19	23.5	27.5	29	28	25	19.5	14.5	10

Calculate the mean of these temperatures.

..... °C [2]

Q5. (June 2021 v1)

4 The stem-and-leaf diagram shows the number of hours that each of 16 students studied last week.

1	2	5	6	8	
2	0	1	1	7	9
3	2	3	4	5	
4	4	5	7		

Key: 1|2 represents 12 hours

Find

(a) the median,

..... h [1]

(b) the mode,

..... h [1]

(c) the range.

..... h [1]

Q6. (June 2021 v2)

4

253 306 185 270 386

Calculate the mean of these numbers.

..... [2]

Q7. (June 2021 v2)

12 Emma has 15 mathematics questions to complete.
The stem-and-leaf diagram shows the time, in minutes, it takes her to complete each question.

0	3	5	6	7	7	8	8
1	1	2	2	3	6	6	6
2	0						

Key: 2 | 0 = 20 minutes

Complete the table.

Mode	..... min
Median	..... min
Range	..... min

[3]

Q8. (June 2021 v3)

6

18 28 7 15 41 19 31 53

Calculate the mean of these numbers.

..... [2]

Q9. (June 2022 v1)

8 Here is some information about six numbers:

- The lowest number is 37.
- The range is 24.
- The mode is 43.
- The median is 46.
- One number is a multiple of 11.

Find the other five numbers.

37, ..., ..., ..., ..., ... [4]

(b) Work out the mean score.

..... [3]

Q10. (June 2022 v2)

(b) the mode.

..... min [1]

Q11. (June 2023 v1)

5

21 8 15 32 3 29 19 45 8

Calculate the mean of these numbers.

..... [2]

Q12. (June 2023 v3)

7 The stem-and-leaf diagram shows the ages of 21 people.

1	6 9
2	1 4 4 5 8
3	2 6 7 9
4	0 2 4 6 8 9
5	3 4 5 7

Key : 1|6 represents 16 years

(a) Find the fraction of people who are more than 30 years old.

..... [1]

(b) Work out the range.

..... [1]

(c) Find the median.

..... [1]

Q13. (June 2024 v2)

(b) Find the median.

..... [1]

Q14. (June 2025 v2)

11

0	2	2	3	4	7

For these six numbers

(a) write down the mode

..... [1]

(b) work out the range

..... [1]

(c) work out the median

..... [1]

(d) work out the mean.

..... [2]

Q15. (June 2025 v3)

6 These are the lengths of time, in minutes, of seven phone calls.

10 22 5 7 35 8 75

(a) (i) Find the median.

..... min [2]

(ii) Find the range.

..... min [1]

Q16. (Nov 2018 v3)

18

16 7 23 18 73 20 95 17 89 54

For this list of numbers, find

(a) the median,

..... [2]

(b) the range.

..... [1]

Q17. (Nov 2018 v3)

21 The table shows the number of pets owned by each of the 95 students in a school.

Number of pets	Frequency
0	5
1	14
2	39
3	14
4	23

Calculate the mean number of pets.

..... [3]

Q18. (Nov 2019 v1)

19

27 14 8 93 32 55 14 38 73 47

From this list of numbers find

(a) the median,

..... [2]

(b) the range.

..... [1]

Q19. (Nov 2019 v2)

15 These are the number of texts sent one day by each of 10 students.

18 13 15 8 9 17 12 8 6 14

(a) Write down the mode.

..... [1]

(b) Calculate the mean.

..... [2]

Q20. (Nov 2019 v3)

(b) Write down the mode.

..... [1]

Q21. (Nov 2019 v3)

19 The mean of three numbers is 150.
The numbers are 361, $2n$ and $(n-1)$.

Find the value of n.

$n =$ ..... [3]

Q22. (Nov 2020 v3)

5 The mean of seven numbers is 16.

Six of these numbers are 12, 20, 19, 10, 21 and 13.

Find the seventh number.

..... [2]

Q23. (Nov 2021 v1)

5 The number of items that each of 22 people buy in a supermarket is shown in the stem-and-leaf diagram.

1	1 3 6 6
2	0 2 2 2 4 8 9
3	1 1 5 8 9 9
4	2 4 6 7 8

Key: 1 | 1 represents 11 items

(a) Find the mode.

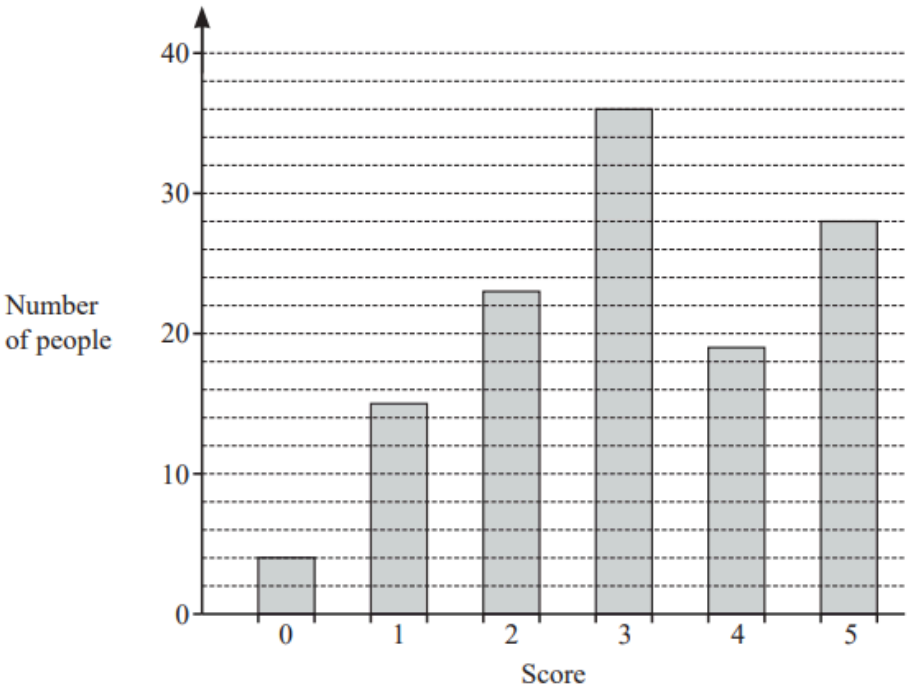
..... [1]

(b) Find the median.

..... [1]

Q24. (Nov 2021 v1)

11 125 people taste a new drink.
Each person gives a score out of 5.
The bar chart shows the results.



Calculate the mean score.

..... [3]

Q25. (Nov 2021 v2)

12 The stem-and-leaf diagram shows the age, in years, of each of 15 women.

3	1	5	8	9			
4	1	1	2	3	5	6	9
5	0	2	3	8			

Key: 3 | 1 represents 31 years

Complete these statements.

The modal age is .....

The median age is .....

The percentage of women that are older than 51 years is ..... %. [3]

Q26. (Nov 2021 v3)

6

62 43 16 21 73 16 33 16 35

For this list of numbers find

(a) the mode,

..... [1]

(b) the median.

..... [2]

Q27. (Nov 2021 v3)

15 Sara takes 5 tests.
Her mean score is 62.
She takes another test and her mean score is now 68.

Work out her score in the sixth test.

..... [3]

Q28. (Nov 2022 v2)

13 Daryl records the number of hours in a week 8 people spend exercising.

5 2 1.5 3 18 4.5 2 4

(a) Find the median.

..... h [2]

(b) Explain why the mean may not be a suitable average to use.

..... [1]

Q29. (Nov 2022 v3)

5 The stem-and-leaf diagram shows the marks scored by each of 35 students in a science test.

2	7 8 8 9
3	0 2 2 4 5 7 8 9
4	1 1 2 3 4 5 7 8 9 9
5	0 2 3 5 5 5 6 7 7 8
6	1 2 4

Key: 2 | 7 represents 27

(a) Find the range.

..... [1]

(b) Find the mode.

..... [1]

(c) Find the median.

..... [1]

Q30. (Nov 2023 v1)

6 **(a)** Mei writes down five integers.

- The lowest integer is 8.
- The range is 9.
- The median is 15.
- The total of the five integers is 66.
- There is no mode.

Write down the five integers.

..... , ... , ... , ... , ... [3]

(b) Huan writes down four numbers.
The mean of these four numbers is 17.

He writes down a fifth number.
The mean of these five numbers is 20.

Find the fifth number.

..... [3]

Q31. (Nov 2023 v1)

9 The stem-and-leaf diagram shows the time, in minutes, it takes each of 15 people to complete a race.

1	6 6 7
2	1 3 3 4 5 6 7 7 7
3	0 1 1

Key: 1 | 6 represents 16 minutes

Find

(a) the mode

..... min [1]

(b) the range

..... min [1]

(c) the median.

..... min [1]

Q32. (Nov 2023 v2)

(b) Write down the mode.

..... [1]

(c) Find the median.

..... [1]

Q33. (Nov 2023 v3)

6 Jamie records the masses of two samples of oranges, type A and type B.
The stem-and-leaf diagram shows the mass, in grams, of each of 30 oranges of type A.

17	6 8 8 9
18	0 1 2 2 4 7
19	1 2 2 3 6 7 8
20	0 2 5 5 5 6 7 7 8
21	1 5 6 8

Key: 17|6 represents 176 grams

(a) Complete the table to show the range for type A oranges.

	Type A	Type B
Mean (g)	195.7	215.8
Range (g)		35

[1]

(b) Use the information in the table to write down two comments comparing the masses of type A oranges with the masses of type B oranges.

1. .....

.....

2. .....

.....

[2]

Q34. (Nov 2024 v1)

6 The stem-and-leaf diagram shows the number of cars sold each day by a company.

1	0 3 4 5 6 7
2	1 2 2 4 7 7 7
3	0 0 1 2 2 5 6 8
4	0 1 4 6
5	1 2 4

Key: 3 | 2 represents 32

(a) Find the range.

..... [1]

(b) Find the mode.

..... [1]

Q35. (Nov 2024 v1)

15 A bus stops 25 times on a journey.
The table shows the number of people who get on the bus at each stop.

Number of people	Frequency
0	1
1	6
2	7
3	4
4	5
5	2

Calculate the mean.

..... [3]

Q36. (Nov 2024 v3)

4

7	19	8	12	3	12	9	7	12

Find the mode of these numbers.

..... [1]

Q37. (Nov 2024 v3)

13 Each student in a class of 20 students records the number of coins in their pockets.
The table shows the results.

Number of coins	0	1	2	3	4	5	6
Frequency	3	1	7	8	0	0	1

(a) Find the median.

..... [1]

(b) Calculate the mean.

..... [3]

Q38. (Nov 2025 v1)

(b) Calculate the mean number of books sold in the six months.

..... [2]

Q39. (Nov 2025 v1)

(c) Show that the median is 12.5 .

[1]

Q40. (Nov 2025 v2)

11 The stem-and-leaf diagram shows the number of customers entering a shop each day for 20 days.

3	0 1 5 9
4	1 4 6 8 9
5	1 3 4 4 4 7 8
6	3 6 6
7	2

Key : 3 | 0 represents 30 customers

(a) Find the range.

..... [1]

(b) Find the mode.

..... [1]

(d) **(i)** Find the median.

..... [1]

(ii) On the next day 48 customers enter the shop.

Will the median increase or decrease?
Give a reason for your answer.

..... because .....

..... [1]

Q41. (Nov 2025 v3)

(b) Find the median.

..... kg [1]