



Name: _____

Date: _____

Score: _____ / 44

1 Here are the numbers of goals a netball team scored in 9 matches.

14 9 17 12 9 20 11 9 16

Work out

- the mode
- the median
- the mean
- the range

(4 marks)

Answer _____

2 The table shows the shoe sizes of the students in a year group.

Shoe size	Frequency
4	5
5	9
6	12
7	8
8	6

- Write down the modal shoe size.
- Work out the number of students in the year group.
- Work out how many students have a shoe size of 7 or larger.

(3 marks)

Answer _____

- 3 The table shows the number of children in each of 20 families.

Number of children	Frequency
0	3
1	8
2	6
3	3

Work out the mean number of children per family.

(3 marks)

Answer _____

- 4 The table shows the number of pets owned by each of the 25 pupils in class 8B.

Number of pets	Frequency
0	6
1	8
2	5
3	4
4	2

- Work out the median number of pets.
- Work out the mean number of pets.
- Work out the range.

(4 marks)

Answer _____

- 5 The table shows information about the time, t minutes, that 30 customers waited at a garage.

Time (t minutes)	Frequency
$0 < t \leq 10$	4
$10 < t \leq 20$	9
$20 < t \leq 30$	12
$30 < t \leq 40$	5

Work out an estimate for the mean waiting time.

(3 marks)

Answer _____

- 6 Year 8 grew 30 sunflowers. The table shows information about their heights, h cm.

Height (h cm)	Frequency
$0 < h \leq 50$	3
$50 < h \leq 100$	7
$100 < h \leq 150$	12
$150 < h \leq 200$	8

- Write down the modal class.
- Write down the class interval that contains the median.
- Work out an estimate for the mean height. Give your answer to 1 decimal place.

(4 marks)

Answer _____

- 7 Class 8R did a spelling test. Their mean score was 34 and the range was 18.

Here are the scores of the 6 pupils in a small group from class 8T.

28 41 35 30 39 37

- Work out the mean and the range of the 8T scores.
- Make two comparisons between the scores of 8R and the scores of the 8T group.

(4 marks)

Answer _____

- 8 Here is the weekly pocket money of 7 friends.

£5 £6 £6 £6 £8 £9 £30

- Work out the mean.
- Work out the median.
- Zak says, "The mean is the best average to show how much pocket money these friends usually get." Explain why Zak is wrong.

(4 marks)

Answer _____

- 9 The mean of 8 numbers is 12.

The mean of 5 of these numbers is 9.

Work out the mean of the other 3 numbers.

(3 marks)

Answer _____

- 10 Freya plays six rounds of a quiz. Her mean score for the six rounds is 15.

Here are her scores for the first five rounds.

12 18 9 21 14

Work out her score in the sixth round.

(4 marks)

Answer _____

- 11 The table shows the number of items bought by each of 40 customers at a corner shop.

Number of items	Frequency
1	12
2	15
3	9
4	4

a. Work out the mean number of items bought per customer.

b. Kai says, "The mode is 15." Explain the mistake Kai has made.

(4 marks)

Answer _____

12

The table shows information about the lengths, l cm, of 40 courgettes grown on an allotment.

Length (l cm)	Frequency
$10 < l \leq 20$	6
$20 < l \leq 30$	11
$30 < l \leq 40$	13
$40 < l \leq 50$	10

- a. Write down the class interval that contains the median.
b. Work out an estimate for the mean length.

(4 marks)

Answer _____

End of questions | Total 44 marks