

**1** Here are eight numbers.

4      10      9      3      4      12      5      14

**1 (a)** Work out the range.

**[1 mark]**

Answer \_\_\_\_\_

**1 (b)** Work out the median.

**[2 marks]**

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Answer \_\_\_\_\_

- 2 The table shows the number of films watched one week by 30 people.

Number of films	Frequency	
0	5	
1	9	
2	8	
3	6	
4	2	

Total = 30

- 2 (a) Write down the modal number of films watched.

[1 mark]

Answer \_\_\_\_\_

- 2 (b) Work out the mean number of films watched per person.

[3 marks]

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Answer \_\_\_\_\_

3

A company sells bags of toffees and bags of mints.

Here are the numbers of sweets in 11 bags of toffees.

55    50    49    51    55    47    54    50    49    55    57

Here are the numbers of sweets in 10 bags of mints.

46    47    47    48    48    50    53    54    54    54

The company claims that the average number of sweets per bag is at least 50

Using medians, is the company's claim correct for each type of sweet?

You **must** work out the median for toffees and the median for mints.

[4 marks]

Toffees \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Tick a box for toffees.

☐

Yes

☐

No

Mints \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Tick a box for mints.

☐

Yes

☐

No

- 4 Six positive numbers have  
a mean of 10  
a range of 19

Four of the numbers are 12 7 15 3

Work out the other two numbers.

**[3 marks]**

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Answer \_\_\_\_\_ and \_\_\_\_\_

- 5 (a)** For a set of five numbers,
- the mode is 8
- the median is 12

Work out **one** possible set of five numbers.

**[2 marks]**

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Answer \_\_\_\_\_

- 5 (b)** Here are the heights, in centimetres, of some children.

98      103      91      85      159      102      91

Which height is an outlier?

**[1 mark]**

Answer \_\_\_\_\_ cm

6 A school play takes place each day from Monday to Friday.  
Here are the attendances on four of the days.

Monday	Tuesday	Wednesday	Thursday
72	83	88	97

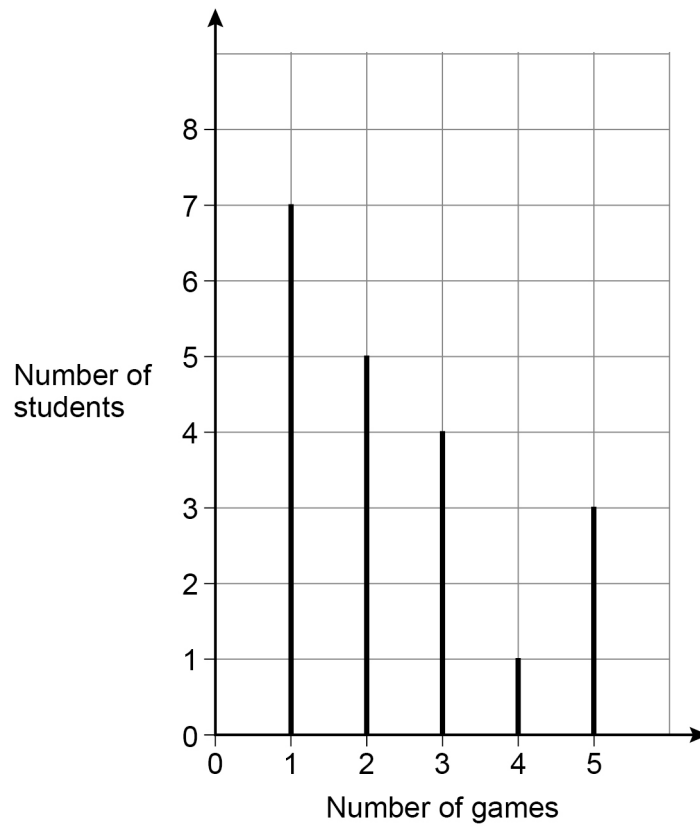
For all **five** days, the mean attendance is 90

Work out the attendance on Friday.

[3 marks]

Answer \_\_\_\_\_

- 7 20 students are asked how many video games they played last month.  
The chart shows information about the results.



- 7 (a)** Work out the mean number of games played.  
Give your answer as a decimal.

**[3 marks]**

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Answer \_\_\_\_\_



8                    Here is some data about people visiting a gym one week.

	Percentage of all visitors	Mean number of hours visiting	Range of number of hours visiting
Members	64	4	6
Guests	36	$2\frac{1}{2}$	8

Compare the data for the members with the data for the guests.

Make **three** comparisons.

[3 marks]

Comparison 1 \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Comparison 2 \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Comparison 3 \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

9

Sunita is  $x$  years old.

Beth is one year younger than Sunita.

Joel is double Sunita's age.

The mean of their ages is 5

How old is **Joel**?

**[5 marks]**

Answer \_\_\_\_\_

**10** Here is a list of numbers.

10    8    2    11    12    15    4    4

**10 (a)** Write down the mode.

**[1 mark]**

Answer \_\_\_\_\_

**10 (b)** Work out the median.

**[2 marks]**

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Answer \_\_\_\_\_

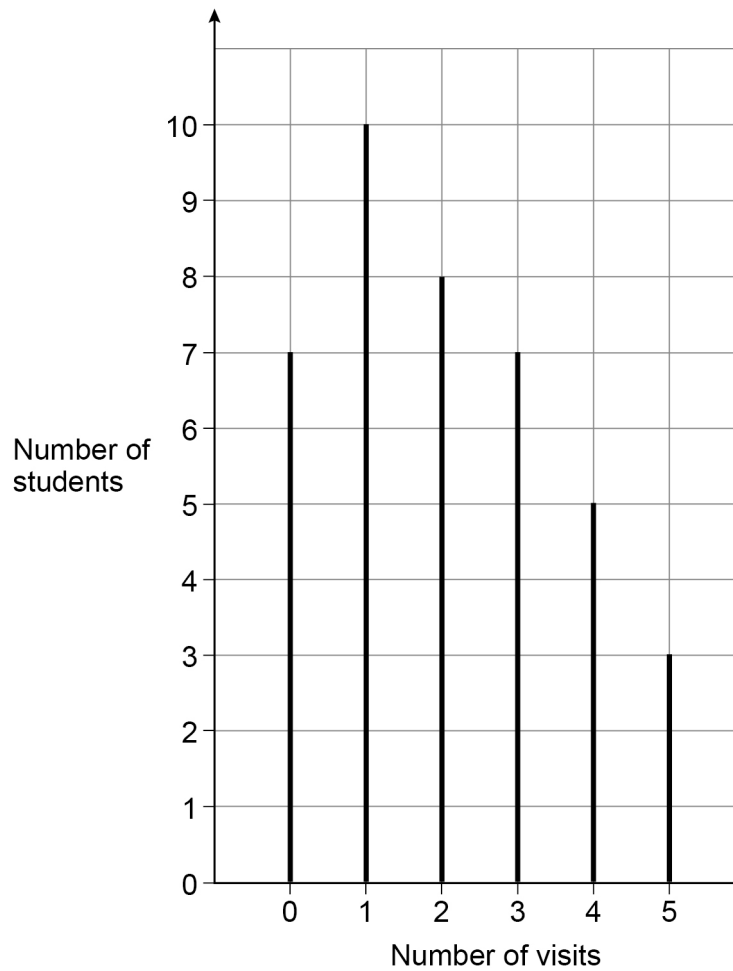
**10 (c)** Work out the range.

**[1 mark]**

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Answer \_\_\_\_\_

- 11** 40 students were asked the number of visits they made to a gym one week.  
The chart shows information about the results.



- 11 (a)** Write down the modal number of visits.

**[1 mark]**

Answer \_\_\_\_\_

- 11 (b)** Work out the mean number of visits.  
Give your answer as a decimal.

**[3 marks]**

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Answer \_\_\_\_\_

- 11 (c)** One of the 40 students is chosen at random.  
Work out the probability that the student visited the gym **at least** once.

**[2 marks]**

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Answer \_\_\_\_\_

12 Alina and Sue play netball.  
The number of goals they scored in 8 games is shown.

Alina	12	15	17	17	21	22	24	26
Sue	13	13	17	20	22	23	24	31

12 (a) Complete this table.

[2 marks]

	Range	Median
Alina		19
Sue	18	

12 (b) Which player scored the more consistent number of goals?  
Tick a box.

Alina☐

Sue☐

Give a reason for your answer.

[1 mark]

**13** Four numbers have a mean of 10

Three of the numbers are 5 8 9

Work out the other number.

**[3 marks]**

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Answer \_\_\_\_\_