

Averages from Tables and Diagrams



REVISE THIS TOPIC

1 The table shows the number of times some students were late to school in one week.

Number of Lates	Frequency	
0	17	0
1	5	5
2	3	6
3	2	6
4	2	8
5	1	5

30

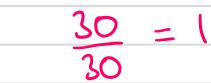
1 (a) Write down the modal number of lates.

[1 mark]

Answer

1 (b) Work out the mean number of lates per student.

[3 marks]





Answor

4



2 The table shows the number of bedrooms for 50 new houses being built.

Number of Bedrooms	Frequency	
2	6	12
3	31	93
4	10	40
5	3	15
	10	160

2	(a)	Write down th	ne modal	number of	of bedrooms
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[1 mark]

Answer 3

2 (b) Write down the range of the number of bedrooms.

[1 mark]

Answer

2 (c) Work out the mean number of bedrooms per house.

[3 marks]

Answer 3 · 2





3 The table shows the number of holidays taken by some workers during a year.

Number of Holidays	Frequency	
0	1	0
1	10	10
2	9	18
3	5	15
		ルつ

3 (a) Write down the modal number of holidays.

[1 mark]

Answer ____

3 (b) Work out the mean number of holidays per worker.

[3 marks]

Answer $\cdot 72$

3 (c) Work out the median number of holidays.

[2 marks]



Answer

11

Turn over ▶



4 The table shows the shoe sizes of 30 students in a tutor group.

Shoe Size	Frequency	
3	3	9
4	4	16
5	8	40
6	9	54
7	5	35
8	1	8
		160

30 162

4 (a) Write down the modal shoe size.

[1 mark]

Answer

4 (b) Work out the mean shoe size.

[3 marks]

Answer 5.4

4 (c) Work out the median shoe size.

[2 marks]

33344448888888888866666666666666777778

Answer 5.5





5 The table shows the number of detentions received by some students in a week.

Number of Detentions	Frequency	
0	20	O
1	9	9
2	2	4
3	1	3
4	0	O

5 ((a)	Write down	the modal	number of	detentions.
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[1 mark]

Answer	\mathbf{O}	
AII3WCI		

5 (b) Write down the range of the number of detentions.

[1 mark]

Answer

5 (c) Work out the total number of detentions received by students. [2 marks]

$$0+9+4+3+0=16$$

Answer 6



Turn over ▶



6 The table shows the number of phones owned by 20 students in a class.

Number of Phones Owned	Frequency	
0	2	0
1	15	15
2	2	4
3	1	3

20	22

6	(a)	Write down the modal number of phones owned.
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[1 mark]

Answer	
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[1 mark]

Answer 3

6 (c) Work out the mean number of phones owned.

[3 marks]

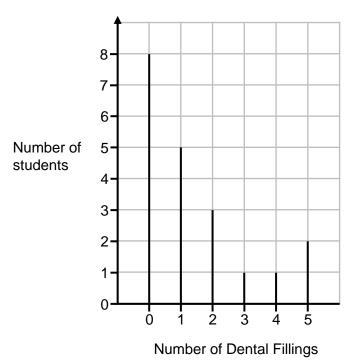
$$\frac{22}{30} = |\cdot|$$

Answer____



7 A class of 20 students were asked how many dental fillings they had.

The vertical line chart shows results.



7 (a) Write down the modal number of dental fillings.

[1 mark]

Answer

7 (b) Work out the mean number of fillings per student.

[3 marks]

$$0 \times 8 = 0$$
 $4 \times 1 = 4$
 $1 \times 5 = 5$ $5 \times 2 = 10$
 $2 \times 3 = 6$ $5 + 6 + 3 + 4 + 10 = 28$
 $3 \times 1 = 3$ $28 \div 20 = 1.4$

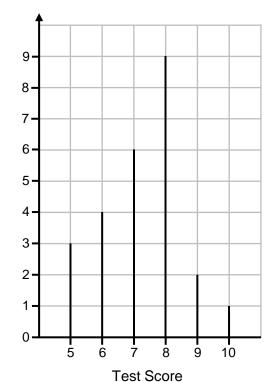
Answer 1.4



A class of 25 students were given a maths test. 8

The maximum score for the test was 10 marks.

The vertical line chart shows results of the test.



Number of students

8 (a) Write down the range of the test scores.

10-5=5

[1 mark]

Answer

8 (b) Work out the median test score.

[2 marks]

55 5 6 6 6 6 7 7 7 7 7 7 7 8 8 8 8 8 8 8 9 9 10

Answer





9 The table shows the number of homeworks received by some students in a week.

Number of homeworks	Frequency	
2	6	
3	2	
4		
5	8	
6	3	

The frequency for 4 homeworks was missed off.

Tick **one** box for each of the statements below.

[3 marks]

	Must be true	Could be true	Cannot be true
The modal number of homeworks is 4			
The range of the number of homeworks is 4	f		
The mean of the number of homeworks is 4			

