## Averages from Tables and Diagrams

## SCAN ME

REVISE THIS TOPIC

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

| Number of Rates | Frequency |  |
| :---: | :---: | :---: |
| 0 | 17 | 0 |
| 1 | 5 | 5 |
| 2 | 3 | 6 |
| 3 | 2 | 6 |
| 4 | $\frac{1}{30}$ | $\overline{30}$ |
| 5 |  |  |

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

Answer
0

1 (b) Work out the mean number of late per student.
$\frac{30}{30}=1$
$\qquad$ $\longrightarrow$ Answer

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

| Number of <br> Bedrooms | Frequency |  |
| :---: | :---: | :---: |
| 2 | 6 | 12 |
| 3 | 31 | 93 |
| 4 | 10 | 45 |
| 5 | 3 | 160 |

2 (a) Write down the modal number of bedrooms.

Answer $\qquad$

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

$$
5-2
$$

Answer 3

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


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

| Number of <br> Holidays | Frequency |  |
| :---: | :---: | :---: |
| 0 | 1 | 0 |
| 1 | 10 | 0 |
| 2 | 9 | 18 |
| 3 | 5 | 15 |
| 25 | 43 |  |

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


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

$\qquad$

| Answer | $\cdot T$ |
| :--- | :--- |

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


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

| Shoe Size | Frequency |  |
| :---: | :---: | :---: |
| 3 | 3 | 9 |
| 4 | 4 | 6 |
| 5 | 8 | 40 |
| 6 | 9 | 54 |
| 7 | 5 | 35 |
| 8 | 30 | $\frac{162}{80}$ |

4 (a) Write down the modal shoe size.

## Answer <br> 6

4 (b) Work out the mean shoe size.

$$
\frac{162}{30}=5.4
$$

$\qquad$
Answer $5 \cdot 4$

4 (c) Work out the median shoe size.

## 

$\qquad$
$5 \cdot 5$
$5 \quad$ The table shows the number of detentions received by some students in a week.

| Number of <br> Detentions | Frequency |  |
| :---: | :---: | :---: |
| 0 | 20 | 0 |
| 1 | 9 | 9 |
| 2 | 2 | 4 |
| 3 | 1 | 3 |
| 4 | 0 | 0 |

5 (a) Write down the modal number of detentions.

Answer


5 (b) Write down the range of the number of detentions.
3-0
Answer 3

5 (c) Work out the total number of detentions received by students.
$0+9+4+3+0=16$
$\qquad$
$\qquad$


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

| Number of <br> Phones Owned | Frequency |  |
| :---: | :---: | :---: |
| 0 | 2 | 0 |
| 1 | 15 | 15 |
| 2 | 2 | 4 |
| 3 | 1 | $\frac{3}{22}$ |

6 (a) Write down the modal number of phones owned.


6 (b) Write down the range of the number of phones owned.


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

$$
\frac{22}{20}=1.1
$$

$\qquad$


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.

Answer
0

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

$$
\begin{array}{ll}
0 \times 8=0 & 4 \times 1=4 \\
1 \times 5=5 & 5 \times 2=10 \\
2 \times 3=6 & 5+6+3+4+10=28 \\
3 \times 1=3 & 28 \div 20=1.4
\end{array}
$$

$$
\text { Answer } \quad 1 \cdot 4
$$

8 A class of 25 students were given a maths test.
The maximum score for the test was 10 marks.
The vertical line chart shows results of the test.


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

$$
10-5=5
$$

Answer
5

8 (b) Work out the median test score.
$\qquad$
$\qquad$
7

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

| Number of <br> homeworks | Frequency |
| :---: | :---: |
| 2 | 6 |
| 3 | 2 |
| 4 | 8 |
| 5 | 3 |
| 6 |  |

The frequency for 4 homeworks was missed off.
Tick one box for each of the statements below.

## Must be true <br> Could be true <br> Cannot be true

The modal number of homeworks is 4


The range of the number of homeworks is 4


The mean of the number of homeworks is 4

$\square$

