Mean from a Frequency Table

1

The table shows the number of pets 20 students have. Work out the mean number of pets.

Pets	Frequency	Frequency × value
0	6	6 × 0 = 0
1	7	
2	4	
3	3	
Total	**20**	

Mean = ☐ ÷ ☐

Mean _____

2

A rugby team played 25 matches. The table shows the number of tries it scored in each match. Work out the mean.

Tries	Frequency	Frequency × value
0	3	
1	8	
2	7	
3	5	
4	2	
Total	**25**	

Mean = ☐ ÷ ☐

Mean _____

3

Some office workers said how many cups of tea they drank yesterday. Work out the mean.

Cups	Frequency	Frequency × value
0	3	
1	9	
2	9	
3	6	
4	3	
Total		

_____

Mean _____

4

The table shows the number of bedrooms in 30 houses.

(a) Find the mode.
(b) Work out the range.

Bedrooms	Frequency
1	4
2	9
3	11
4	5
5	1
Total	**30**

(a) _____ **(b)** _____

5

21 hens each laid some eggs in one week. The table shows the results. Find the median number of eggs.

Eggs	Frequency
3	2
4	5
5	8
6	4
7	2
Total	**21**

(21 + 1) ÷ 2 = ☐

Median _____

6

24 students said how many times they used the canteen this week.

(a) Find the mode.
(b) Find the median.

Visits	Frequency
1	2
2	9
3	7
4	4
5	2
Total	**24**

_____

(a) _____ **(b)** _____

7

The table shows the shoe sizes of 25 students.

(a) Work out the mean.
(b) Find the median.

Shoe size	Frequency	
3	2	
4	6	
5	9	
6	5	
7	3	
Total	**25**	

(a) _____ **(b)** _____

8

30 people went fishing. Ravi says the mean number of fish caught is 48 ÷ 5 = 9.6. Explain his mistake. Work out the mean.

Fish	Frequency	
0	6	
1	10	
2	7	
3	4	
4	3	
Total	**30**	

_____

Mean _____

Mean from a Frequency Table *further practice*

9

40 students said how many portions of fruit they ate yesterday.
Work out the mean.

Portions	Frequency	
0	4	
1	8	
2	12	
3	8	
4	6	
5	2	
Total	**40**	

Mean _____

10

31 people counted the keys on their key ring.

Find (a) the mode, (b) the median and (c) the range.

Keys	Frequency
2	3
3	11
4	9
5	5
6	3
Total	**31**

(a) _____ **(b)** _____ **(c)** _____

11

The number of people at each of 20 tables in a café:
2, 4, 3, 2, 1, 2, 4, 3, 2, 2, 3, 4, 1, 2, 3, 2, 4, 3, 1, 2
Complete the table and work out the mean.

People	Frequency	
1		
2		
3		
4		
Total		

Mean _____

12

Two classes did a quiz. The table shows their scores out of 4. Which class had the higher mean score? Show how you know.

Score	Class A	Class B
1	2	5
2	6	4
3	8	6
4	4	10
Total	**20**	**25**
Mean		

Answer _____

13

A fairground ride has three prices. The table shows the tickets sold in one hour. Work out the mean price of a ticket.

Price	Frequency	
£2	14	
£3	18	
£5	8	
Total	**40**	

Mean _____

14

20 students said how many pets they have. Find the median.

Pets	Frequency
0	5
1	5
2	6
3	4
Total	**20**

Median _____

15

Jo says the mean of this table is 4.2.
Without working out the mean, explain how you know she is wrong.

Goals	Frequency
0	8
1	7
2	6
3	4
Total	**25**

16

Amir says the mode of this table is 12.
Explain his mistake and give the mode.

Siblings	Frequency
0	3
1	6
2	12
3	5
4	2
Total	**28**

Mode _____