Name:

Exam Style Questions

Mean from a Frequency Table Corbettmaths



Equipment needed: Calculator, pen

Guidance

- 1. Read each question carefully before you begin answering it.
- 2. Check your answers seem right.
- 3. Always show your workings

Video Tutorial

www.corbettmaths.com/contents

Video 54



Answers and Video Solutions



Robbie played twenty football matches for his school team.
 The number of goals scored in each game are shown in the table.

Goals	Number of matches	
0	3	
1	5	
2	9	
3	1	
4	2	

(a) Work out the total number of goals scored by Robbie.

(2)

(b) Calculate the mean number of goals scored per game.

.....

2. The table shows the number of sweets in 20 bags.



Number of sweets	Frequency
23	1
24	4
25	9
26	3
27	3

Calculate the mean.

(3)

3. Lily visits an arcade while on holiday in Weston-Super-Mare.

She plays 100 games and wins tickets that she can exchange for prizes.

The table below shows the results.

Number of tickets won	Frequency
0	2
1	11
2	28
3	18
4	11
5	15
6	10
7	2
8	3

(a) Work out the total of tickets won.

(2)

(b) Calculate the mean number of tickets per game.

.....



Thirty students were asked how many cats they owned. The results are shown in the table.

Number of cats	Number of children
0	6
1	13
2	7
3	3
4	1

Calculate the mean number of cats owned per child.

(3)



A company collected data about the number of internet devices in each of 50 households.

The table shows the results.

Number of	Number of
devices	households
0	1
1	1
2	2
3	4
4	9
5	13
6	10
7	7
8	3

(a) Work out the total number of internet devices in these 50 households

	(2)

(b) Calculate the mean number of internet devices per household.

(2)

6. **=**

Alex works for the council.

He records the number of people in cars travelling down a street over one hour.

Here are his results.

Number of people in each car	Number of cars
1	41
2	54
3	32
4	20
5	3

	20	4	
	3	5	
treet.	s that travelled down the st	ut the total number of cars	(a) Work ou
(1)			
own the street.	ple that travelled in cars d	ut the total number of peo	(b) Work ou
(2)			
	ople travelling in each car.	ut the mean number of pe	(c) Work ou
(2)			

7. Mr Edwards asks his class how long they spent revising for a test.



The table shows the results.

Hours of Revision	Frequency
0	1
1	10
2	7
3	3
4	1
5	3

Mr Edwards says "the average amount of time spent revising was 1 hour."

Do you agree with him? Explain your answer.

8. Chloe owns a restaurant.



She surveys a group of people about how many times they have visited her restaurant.

The highest number of visits was 5.

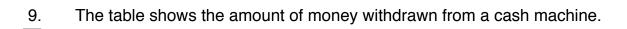
The table shows some information about her results.

Number of Visits	Frequency
0	41
1	38
2	15
3	
4	3
5	1

The total number of visits to her restaurant by the group was 160

Find the missing frequency.

(3)



Money Withdrawn	Frequency	
£10	22	
£20	15	
£30	3	
£40	3	
£50	5	
£100	2	

		£50	5
		£100	2
(a)	Write down the m	nodal amount of I	money withdraw
(b)	Find the median	amount of mone	y withdrawn.
(0)	Mayla aut tha mag	on amount of ma	n av vvitla dravva

(c) Work out the mean amount of money withdrawn.

..... (3) 10. A French teacher asks her class of 20 students how to spell 10 words.



The table shows the results.

Correct Answers	Frequency
5	1
6	3
7	5
8	8
9	2
10	1

Work out the percentage of the class that scored greater than the mean number of correct answer.

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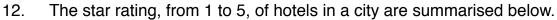
11. Simon rolls a fair six-sided dice 30 times.

He records the results in a table, however misses two of the frequencies.

Number	Frequency
1	6
2	3
3	5
4	
5	
6	6

The mean result is 3.5

Work out the two missing numbers.





Star rating	Frequency
1	4
2	17
3	23
4	×
5	18

The mean star rating of a hotel in the city is 3.575

Calculate the value of the missing frequency, x.

(4)