

Topic: Finding Mean from a Frequency Table

Q1: The frequency table shows the number of goals scored in 10 football matches. Find the mean number of goals.

Number of goals	Frequency
0	3
1	4
2	2
3	1

Q2: The frequency table shows the number of people on 20 buses. Find the mean number of people.

Number of people	Frequency
8	3
9	7
10	6
11	4

Q3: The frequency table shows the ages, in years of 25 children in a club. Find the mean age.

Ages of children	Frequency
4	8
5	12
6	4
7	1

Q4: Alex works in a restaurant. At 1 pm, one day she records the number of customers sitting at the tables in the restaurant. Here are the results.

- a) Work out the total number of tables in the restaurant.
- b) Work out the total number of customers sitting at the tables in the restaurant.
- c) Work out the mean number of customers per table in the restaurant.

Number of customers	Number of tables
0	3
1	4
2	10
3	3
4	5

Topic: Finding Mean and Mode from a Frequency Table

Q1: The frequency table shows the number of pets of 15 students. Find the mean number of pets.

Number of pets	Frequency
0	2
1	8
2	4
3	1

Q2: The frequency table shows the number of puppies. Find the mean number of puppies.

Number of puppies	Frequency
5	3
6	7
7	6
8	3
9	2

Q3: The frequency table shows the price of a packet of the biscuits in 16 different shops. Find the mean price.

Price (p)	Frequency
59	10
60	2
61	2
62	1
63	1

Q4. This frequency table based on a survey where 89 women were asked what their shoe size was. Calculate the Mean and mode of the data.

Shoe Size	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9
Frequency	5	12	18	19	11	4	8	5	5	0	2

Q5: The frequency table shows the number of bathrooms in people's houses.

- Find the Mode of the data.
- Explain why it is not possible to find the mean of the data presented.

Number of Bathrooms	Frequency
1	30
2	21
3	5
4	7
5 or more	3

Q6: The number of goals scored by a football team in a season is shown in the table below.

- What is the mode for the number of goals scored?
- Find the mean number of goals scored to the nearest whole number?

Number of Goals	Frequency
0	7
1	14
2	13
3	8
4	3
5	4
6	1

Construction of the Frequency Table

Q1: Here are the makes of 20 cars. Complete the frequency table.

Ford BMW Honda Honda VW Toyota
 Ford Toyota Honda Toyota Ford Honda
 Honda VW Toyota Honda Ford Ford

Make	Tally marks	Frequency
BMW		
Honda		
Ford		
Toyota		
VW		

Q2: Construct frequency distribution table using the score of 30 students of grade 7 in Mathematics assessment.

10	15	8	21	20	11
12	13	9	22	21	16
17	11	8	17	28	21
21	17	16	18	25	20
12	20	18	21	22	12

- a) Determine the range and mode of the marks obtained.
- b) Calculate the mean using frequency distribution table.

Q3: Make the frequency table for the ungrouped data given as follows:

10, 20, 15, 25, 30, 10, 15, 10, 25, 20, 15, 10, 30, 25

Q4: Draw the frequency table for the following sets of data.

- a) 2, 3, 1, 4, 2, 2, 3, 1, 4, 4, 4, 2, 2, 2
- b) 4, 3, 6, 5, 2, 4, 3, 3, 6, 4, 2, 3, 2, 2, 3, 3, 4, 5, 6, 4, 2, 3, 4
- c) 6, 7, 5, 4, 5, 6, 6, 8, 7, 9, 6, 5, 6, 7, 7, 8, 9, 4, 6, 7, 6, 5