

Mean from a Frequency Table S1-S3, National 4

1. A die is thrown 40 times. The way the die lands, is recorded in the table below.

Calculate the mean throw.

Number	Frequency	Number x frequency
1	6	
2	7	
3	5	
4	4	
5	6	
6	12	
Totals	40	



2. The weights, to the nearest pound, of 20 newborn babies are recorded.
The results are shown in the table.

Calculate the mean weight,
correct to the nearest pound.

Weight	Frequency	Weight x frequency
4	2	
5	5	
6	4	
7	6	
8	2	
9	1	
Totals	20	

3. The heights, in inches, of 30 first year pupils are measured.
The table below shows the results.

Calculate the mean height,
correct to one decimal place.

Height	Frequency	Height x frequency
58	1	
59	5	
60	3	
61	7	
62	4	
63	6	
64	4	
Totals	30	



4. 25 pupils are asked 10 mental arithmetic questions.
The table shows the frequency of the number of questions the pupils answered correctly.



Calculate the mean number of correct answers.

Number correct	Frequency	Number correct x frequency
4	1	
5	3	
6	2	
7	5	
8	2	
9	6	
10	6	
Totals	25	

5. 18 pupils are given the same passage to type on a computer. The frequency of the number of errors made by these pupils is shown in the table.

Calculate, to the nearest whole number, the mean number of errors.

Number of errors	Frequency	Number of errors x frequency
0	2	
1	2	
2	5	
3	7	
4	1	
5	1	
Totals	18	

6. The pupils in a P.E. class are asked to see how many sit-ups they can do.
The results are shown in the table.



Calculate the mean number of sit-ups.

Number of sit-ups	Frequency	Number of sit-ups x frequency
15	1	
16	4	
17	1	
18	9	
19	3	
20	2	
21	5	
Totals	25	

7. A survey of 50 adults is carried out to see how many texts each sends in a one hour period.

The table shows the results.



Calculate, to the nearest whole number, the mean number of texts.

Number of texts	Frequency	Number of texts x frequency
5	4	
6	4	
7	3	
8	11	
9	5	
10	7	
11	16	
Totals	50	

8. The results of 92 football matches are recorded.

The table shows the frequency of the number of goals scored in these matches.



Calculate the mean number of goals scored per game.

Number of goals	Frequency	Number of goals x frequency
0	13	
1	22	
2	25	
3	21	
4	6	
5	1	
6	4	
Totals	92	

9. The incomes of a group of employees are shown in the table.

Calculate the mean income, to the nearest £100 pounds.

Income	Frequency	Income x frequency
£22 000	3	
£24 000	7	
£26 000	5	
£28 000	8	
£30 000	6	
£32 000	10	
£34 000	6	
Totals		

10. A group of 30 people are surveyed on the number of theatre visits they have made in the last year.



The results are shown opposite.

Calculate the mean number of visits.

No. of visits	Frequency	No. of visits x frequency
0	7	
1	5	
2	3	
3	8	
4	2	
5	5	
Totals		

11. The waiting times, in minutes, of patients in a dentist surgery are shown in the table.



Calculate the mean waiting time, to the nearest minute.

Waiting time	Frequency	Waiting time x frequency
5	4	
6	11	
7	17	
8	12	
9	9	
10	7	
Totals		

12. A group of passengers leaving an aeroplane are asked to rate the quality of the service on the flight, from 1 to 5, 5 being the best.



Calculate the mean rating given by the passengers.

Rating	Frequency	Rating x frequency
1	9	
2	21	
3	33	
4	35	
5	2	
Totals		