

**Mean, Median, Mode and Range (Grouped Data) – Calculating mean, mode and range**



**Example**

30 families were surveyed and the number of children in each family was recorded. Find the mean, median, mode and range for the number of children in each family.

No. of children	Frequency
1	9
2	10
3	7
4	2
5	2
TOTAL	30



Children x	Frequency f	fx	
1	9	9	9 of 1 = 9
2	10	20	10 of 2 = 20
3	7	21	7 of 3 = 21
4	2	8	2 of 4 = 8
5	2	10	2 of 5 = 10
TOTAL	30	68	

mean = 2.3 (1 dp)      median = 2  
mode = 2                      range = 4



**Application Problems**

Find the mean, median, mode and range of the following test scores.

1.

Score x	Freq. f	fx
20	1	
21	4	
22	4	
23	6	
24	2	
25	3	
TOTAL		



mean .....

median .....

mode .....

range .....

2. Generally which one of the mean, median or mode would give a better representation of the scores in a test. Justify your answer.

3. Five coins were tossed and the numbers of heads recorded. Sort the data into a frequency table, then find the mean, median, mode and range.

2, 3, 5, 1, 4, 2, 4, 3, 2, 5, 1, 0, 2, 5, 3, 2, 1, 3, 2, 3, 1, 3, 4, 0, 3, 2, 3, 2, 3, 1, 0, 2, 3, 2, 3, 2, 3, 2, 5, 4, 0, 3, 2, 4, 2, 3, 1, 2, 3, 5.

Result x	Tally	Freq. f	fx
0			
1			
2			
3			
4			
5			
TOTAL			



mean .....

median .....

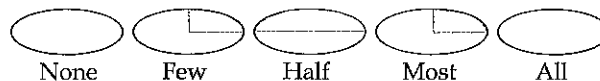
mode .....

range .....

4. How does your median result from the table compare with the number of heads you would expect to get. Justify your answer.

I found this work

Proportion completed



Date: \_\_\_\_\_