

## Mean from a Table

### ROK – Retention of Knowledge

Find the mean, median, mode and range of the following numbers.

- £15, £11, £9, £13
- 12, 8, 9, 8, 13
- 4.8, 3.6, 4.5, 3.6, 4.5

I have 5 numbers, the mean is 6 and the mode is 7 what could these numbers be?

Hurricane Katrina happened in 2005 and mixed up all the words. Can you unscramble the words.



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pitlumlly atoalt  
vedied

Literacy

Half way point of the group

Marks on test	Frequency	Mid Point	$fx$
$0 < h \leq 10$	3	5	15
$10 < h \leq 20$	8	15	120
$20 < h \leq 30$	9	25	225
$30 < h \leq 40$	12	35	420
	32		780

$$\text{Mean} = \frac{\sum fx}{\sum f} = \frac{\text{Total } fx}{\text{Total Frequency}} = \frac{780}{32} = 24.375 \text{ marks}$$

So on average a person scores 24 marks on the test.

Memory

### Skill 1

Find the mean, median and mode from each frequency table

No. of Calls	Frequency
0	9
1	12
2	7
3	5
4	8
5	9

No. Faulty	Frequency
7	29
8	33
9	29
10	28
11	37
12	34

No. Letters	Frequency
4	17
5	27
6	34
7	19
8	13

No. pets	Frequency
0	8
1	18
2	12
3	13
4	9

No. Goals	0	1	2	3	4
Frequency	7	13	10	6	4

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### Skill 2

Find the mean, median and modal class from each grouped frequency table

Height (cm)	Frequency
$130 < h \leq 140$	3
$140 < h \leq 150$	8
$150 < h \leq 160$	9
$160 < h \leq 170$	12
$170 < h \leq 180$	10
$180 < h \leq 190$	6
$190 < h \leq 200$	2

French Test Score	Frequency
$0 \leq x < 10$	1
$10 \leq x < 15$	3
$15 \leq x < 20$	5
$20 \leq x < 25$	8
$25 \leq x < 35$	9
$35 \leq x < 50$	4

Consultation (mins)	Frequency
$0 \leq x < 5$	15
$5 \leq x < 10$	22
$10 \leq x < 15$	11
$15 \leq x < 20$	7

Clothes Shop (pounds)	Frequency
$5 \leq x < 25$	12
$25 \leq x < 40$	39
$40 \leq x < 70$	51
$70 \leq x < 100$	27
$100 \leq x < 150$	12
$150 \leq x < 200$	9

### Stretch

Fifty people were asked what their height were in cm. The following table is the results.

137	93	140	108	98
215	112	154	106	134
148	207	187	104	149
196	194	176	121	158
154	175	130	111	169
83	167	103	192	142
127	174	178	183	153
184	164	115	164	179
157	173	178	178	183
89	177	184	174	174

- Construct a grouped frequency table of this data, setting your own class boundaries.
- Calculate the mean.
- Why you might have a different value for the mean than someone else in the class?
- How you could make your value for the mean more accurate?