## Averages from Tables - www.m4ths.com

(1) The table below shows the number of goals scored by a hockey team in each game over one season.

Goals per game	Frequency	FxG
0	3	
1	5	
2	4	
3	2	
4	1	
5	2	

- (a) Write down the modal number of goals scored per game.
- (b) Find the median number of goals scored per game.
- (c) Find the mean number of goals scored per game.
- (d) Find the range of the number of goals scored per game.
- (e) State whether the data is discrete or continuous.
- (2) The table below shows the time is takes students to get to their school in the morning.

Time	Frequency	FxM
0 ≤ t < 4	10	
4 ≤ t < 7	12	
7≤t<11	8	
11 ≤ t < 15	15	

- (a) Explain why this is grouped data.
- (b) State whether time is discrete or continuous giving a reason for your answer.
- (c) Which is the modal category?
- (c) Which category includes the median time it takes a student to get to school?
- (d) Find an estimated mean time it takes the students to get to school.
- (e) Explain why you can't find the range of the time is takes students to get to school.
- (3) The table below shows the age of some people at a sports club.

Age	Frequency
10 ≤ a < 20	20
20 ≤ a < 30	10
30 ≤ a < 50	12
50 ≤ a < 70	16

- (a) Can you tell the age of the youngest member of the sports club from the table? If not, why not?
- (b) State which is the modal age group.
- (c) Find which age group the median age lies in.
- (d) Find an estimated mean age for the members.
- (e) Why is this mean an estimate?
- (f) Fred says the age range of the members of the club is 58. Could he be correct? You must explain your answer.
- (4) The table below shows how many students attending the lunchtime Peacemallet club each week at a school.

# of students	Frequency
0	13
1	7
2	8
3	5
4	2
5	2
6	0
7	1

- (a) State how many weeks the club run for.
- (b) What was the median number of students attending the club each week?
- (c) Find the mean number of students attending the club each week. Is this an actual mean or estimated mean?
- (d) What was the modal number of students attending the club each week?
- (e) What was the range of the number of students attending the club each week?

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