# MME

## GCSE MATHEMATICS

### **Frequency Tables**

Please write clearly in block capitals

Forename:

Surname:

#### Materials

For this paper you must have:

mathematical instruments

You *can* use a calculator.



#### Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- · Answer all questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.

#### Information

- · The marks for questions are shown in brackets.
- You may ask for graph paper, tracing paper and more answer paper. These must be tagged securely to this answer book.

#### Advice

· In all calculations, show clearly how you work out your answer.

	frequency table as s	shown.		ation in a	
		Shoe Size	Frequency		
		3	4		
		4	7		
		5	15		
		6	12		
		7	2		
1(a)	What is the modal s	What is the modal shoe size?			
				[1 mark]	
	Δ	nswer			
1(b)	What is the median	shoe size?		[1 mark]	
	Δ	nswer			
1(c)	Calculate the mean	[2 marks]			
	Α	nswer			

Turn over ►

2	Data on the ages of 1	2 students has been cc	llected.	
		13, 14, 13, 1 12, 12, 12, 1		
2(a)	Summarise the data i	n the grouped frequenc	y table below.	[2 marks]
		Age (years)	Frequency	
		12		
		13		
		14		
		15		
2(b)	What is the median a	ge?		
				[1 mark]
	An	Swer		
2(c)	Calculate the mean a	ge of the students.		
	Give your answer to 1	decimal place.		
				[2 marks]
	An	swer		
				—
		Turn over for I	next question	
				Turn over ►

	Data has been collected on the number of times 50 students exercise a week. This has been summarised in the frequency table below.				
	Г	Number of times a student			
		exercises in a week	Frequency		
	-	1	5		
		2	16		
		3	15		
		4	7		
		5	7		
a)	Calculate	e the mean number of times students e		[2 mark	
		Answer			
<b>b</b> )	What is t	he median number of times a student	exercises in a week?		
				[1 mar	
		Answer			
		Answer			
		Answer			
		Answer Turn over for ne	xt question		
			xt question		

	A class of 35 stude pizza.	ents were asked how many	extra toppings they like to hav	e on
	The data has been	summarised in the freque	ncy table below.	
		Extra toppings	Frequency	
		0	2	
		1	4	
		2	17	
		3	10	
		4	2	
a)	Calculate the mean	n number of extra toppings	taken.	
	Give your answer	to 2 decimal places.		
				[2 marks]
		Answer		
	<b>T</b> I 040 I			
b)	There are 910 students in the school.			
	one extra topping.	ate for the number of stude	ents in the school who choose e	exactly
				[1 mark]
		Answer		[1 mark]
		Answer		[1 mark] 
				[1 mark]
c)			is to be a reliable estimate.	[1 mark] 
2)				[1 mark] 
c)				
c)				
с)	Give two assumpti	ons that must be true for th		
с)	Give two assumpti	ons that must be true for th		

Time taken (seconds)	Frequency	
24	18	
25	19	
26	17	
27	20	
28	16	
mean time taken to run the 200 m swer to 2 decimal places.	race.	
Answer		seconds
		seconds
Answer	kt question	seconds
	xt question	seconds

The number of pairs of shoes owned by a class of 40 students has been collected and summarised in the frequency table below.

However, some of the data has been lost.

6

Pairs of shoes	Frequency
1	
2	12
3	
4	8
5	3

The mean of the data is 2.9.

Use this information to determine the missing frequencies in the table.

[3 marks]

Answer	
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