Edexcel GCSE Mathematics (Linear) – 1MA0

SHILDENT BOUNTS, COM FREQUENCY TABLES

Materials required for examination

Ruler graduated in centimetres and millimetres, protractor, compasses, pen, HB pencil, eraser. Tracing paper may be used.

Items included with question papers Nil



Instructions

Use black ink or ball-point pen.

Fill in the boxes at the top of this page with your name, centre number and candidate number. Answer all questions.

Answer the questions in the spaces provided – there may be more space than you need. Calculators may be used.

Information

The marks for each question are shown in brackets – use this as a guide as to how much time to spend on each question.

Questions labelled with an asterisk (*) are ones where the quality of your written communication will be assessed – you should take particular care on these questions with your spelling, punctuation and grammar, as well as the clarity of expression.

Advice

Read each question carefully before you start to answer it.

Keep an eye on the time.

Try to answer every question.

Check your answers if you have time at the end.

_		her re			_	0	7	~	4			
5	6	5	2	4	5	8	7	5	4			
7	6	4	3	5	7	6	4	8	5			
(a)	Coı	mplet	e the	frequ	ency t	able to	e to show Amanda's results.					
		Leng	gth in	ı cm		Т	Cally		Frequ	ency]	
			2									
			3									
			4									
			5								-	
			6									
			7									
			8									(2)
(c)	WO	ork ou	t the	range	•							
					awing	pins.						
Rosi	ie had	d 10 b	oxes	of dra			oins in	each	box.			
Rosi She	ie had	d 10 b	ooxes ne nur	of dra	awing	wing p			box.			
Rosi	ie had	d 10 b	ooxes ne nur s info	of dra	awing of drav on abo	wing p	r resul					
Rosi	ie had	d 10 b	ooxes ne nur s info	of dra	awing of drav on abo	wing p	r resul	ts.				
Rosi She	ie had	d 10 b	ooxes ne nur s info	of dramber of the office of th	awing of drav on abo	wing p	r resul	ts.				
Rosi She	ie had	d 10 b	ooxes ne nur s info	of dramber of the office of th	awing of drav on abo	wing p	r resul	quenc				
Rosi	ie had	d 10 b	ooxes ne nur s info	of dramber of the ormation of	awing of drav on abo	wing p	r resul	quence 2 5				
Rosi She	ie had	d 10 b	ooxes ne nur s info	of dramber of ormation of the company of the compan	awing of drav on abo	wing p	r resul	quency 2 5 2				
Rosi She The	ie had coun table	d 10 b	ooxes ne nur s info Nu drav	of dramber of ormation of the company of the compan	awing of drav on abo	wing pout her	Free	quency 2 5 2 1	y			cm (1) (4 n

acy	Frequency	nber of cups of coffee	Nur	
	1	2		
	3	3		
5		4		
	8	5		
	5	6		
<u>_</u>	v ackad	of pupils that And	Work out the number	(a)
••••••	y askeu.	of pupils that And	Work out the number	(a)
ık.	f coffee drunk.	n number of cups of	Work out the mea	(b)
	r correc araim.	r number of cups (THE SALE FILE INC.	(0)
			udents scored goals fo	
scored.	of goals they scor		able gives information	The t
		Number of	Goals scored	
		students		
		students 9	1	
		9	1 2	
		9	2	
		9 3 5	2 3	
		9 3 5 3	2 3 4	
	scored.	9 3 5 3	2 3	(a)
	scored.	9 3 5 3	2 3 4	(a)
	scored.	9 3 5 3	2 3 4	(a)
		9 3 5 3 l number of goals	2 3 4	(a) (b)
		9 3 5 3 l number of goals	2 3 4 Write down the moda	
		9 3 5 3 l number of goals	2 3 4 Write down the moda	
	als scored.	9 3 5 3 I number of goals f the number of go	2 3 4 Write down the moda Work out the range of	(b)
	als scored.	9 3 5 3 I number of goals f the number of go	2 3 4 Write down the moda	

Andy did a survey of the number of cups of coffee some pupils in his school had drunk

3.

5. Bob asked each of 40 friends how many minutes they took to get to work.

The table shows some information about his results.

Time taken (m minutes)	Frequency
$0 < m \le 10$	3
$10 < m \le 20$	8
$20 < m \le 30$	11
$30 < m \le 40$	9
$40 < m \le 50$	9

a) Work out an estimate for the mean time taken.

b)	State the modal class interval	minutes	(4)
c)	Find the group containing the median		(1)
			(2)

6. The table shows information about the numbers of hours 40 children watched television one evening.

Number of hours (h)	Frequency
0 ≤ h < 1	3
1 ≤ h < 2	8
2 ≤ h < 3	7
3 ≤ h < 4	10
4 ≤ h < 5	12

	4 ≤ <i>h</i> < 5	12	
(a) Find the class	interval that contains the media	n.	(1)
			(1)
(b) Work out an es	stimate for the mean number of	hours.	(4)
			hours
			(5 marks)

7. 80 people work in Jenny's factory. The table shows some information about the annual pay of these 80 workers.

Annual pay (£x)	Number of workers
$10\ 000 < x \le 14\ 000$	32
$14\ 000 < x \le 16\ 000$	24
$16000 < x \le 18000$	16
$18\ 000 < x \le 20\ 000$	6
$20\ 000 < x \le 40\ 000$	2

(a) Write down the modal class interval.	_
(b) Find the class interval that contains the median.	(1
(c) Work out an estimate for the mean annual pay.	(2)
(d) Why is your answer to part (c) and estimate?	(3

8. Caleb measured the heights of 30 plants.

The table gives some information about the heights, h cm, of the plants.

Height (h cm) of plants	Frequency	
$0 < h \le 10$	2	
$10 < h \le 20$	8	
20 < h ≤ 30	9	
$30 < h \le 40$	7	
40 < h ≤ 50	4	

) Work out an estimate for the mean height of a plant.	
) Write down the modal class interval.	(3)
Find the class interval that contains the median.	(1)
) Why is your answer to part (a) and estimate?	(2)
	·

9. Marcus collected some pebbles.

He weighed each pebble.

The grouped frequency table gives some information about weights.

Weight (w grams)	Frequency	
$50 \le w < 60$	5	
$60 \le w < 70$	9	
$70 \le w < 80$	22	
80 ≤ w < 90	27	
90 ≤ w < 100	17	

es.	Work out an estimate for the mean weight of the pebbles.	(a)
(3)		
	Write down the modal class interval.	(b)
(1)	·	
	Find the class interval that contains the median.	(c)
(2)	Why is your answer to part (a) and estimate?	(d)
	why is your answer to part (a) and estimate:	(u)
(1) (7 marks)		•••••