Practice questions

and median

1. Calculate Arithmetic, Geometric and Harmonic mean of

2. Calculate Arithmetic Mean, mode and median of following series

×	£			_
No of Goal	#students	£24	cum freq.	$\frac{1}{12}$ mean = $\frac{2fx}{N} = \frac{73}{40} = 1.8$
0	8	0	20kg 8	I_{λ}
1	10	10	18 7,25	[*
2	12	24	30 32-5	Median= $\left(\frac{N+1}{2}\right) = \frac{40+1}{2} = 20$
3	3	3	33	[\2 / 2
4	5	30	38	n median = 2
5	2	10	40 €	N (median = 4)
n=	40	73		•

3. Calculate Arithmetic Mean, mode and median of following series

modal class	Daily	Demand	Frequency	m	E-10	(.t.	n 1
Moder (1432	0-5	2.5	4	2.5	10	4	≯10 ×
median class:	5-10		8	7.5	60	12	المارة
L=5, 1=8,	10-15		6	12.5	75	18	I
	15-20	17.5	2	17.5	35	20	₹ N
DI = 8-4 = 4		Nc	20	Zfw=	180	}	
_	2.8 = Spa	3					
mode= L+ 1 +4.	Find arit	hmetic me	an, median a	nd mo	de of t	the foll	owing:

median class = $\frac{180}{20}$ = $\frac{9}{20}$ median class = $\frac{5-10}{5}$, f=8,

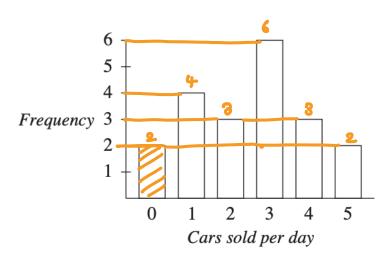
median = $\frac{1+(\frac{10-4}{2})x}{2}$ series

median = $\frac{8\cdot72}{8}$

50-60 10 60-70 10 70-90 20 90-120 30

	1 100		
Wages	Workers		
Under Rs. 60 50-60	3		
Rs. 60 and under Rs. 70	11		
Rs. 70 and under Rs. 80	16		
Rs. 80 and under Rs. 90	15		
Rs. 90 and under Rs. 100	10		
Rs. 100 and under Rs. 110	8		
Rs. 110 and under Rs. 120	6		

5. Find the arithmetic mean, median and mode from following chart



6. The marks obtained by 25 pupils on a test are shown below. Calculate the arithmetic mean, mode and median by converting it into frequency table.

3456551233475152565464543

7. A survey of 100 households in an American town asked how many cars there were in each household The results are given below. Calculate the mean number of cars per household.

No. of cars	Frequency
0	5
1	70
2	21
3	3
4	1

8. The survey in question 1 also asked how many TV sets there were in each household. The results are given below. Calculate the mean number of TV sets per household.

No. of TV Sets	Frequency
0	2
1	30
2	52
3	8
4	5
5	3