Central Tendency Assignment

Numpy code

Import numpy as no arr = np. array([9, 7, 11, 13, 2, 4, 5, 5)] b = np. mean (arr) print (" mean = ", b)

output! Mean = 7

c) Mean = 11.4

2) import numpy as no Q= int (input ("Enter the terms")) f=0 # First element of suries S=1 #

point (" The requested series is it)

else!

print (f, s, end = ".")

for x in range (2, a):

next = frs

print (next, end = "")

frs

crowt

Median = Middlemost value =
$$(\frac{n+1}{2})$$
tu term = $(\frac{n+1}{2})$ tu t

4) Nean = 66

$$8+11+6+14+2+13$$
 266
 $52+2296$
 $72=344$

F) Nean = 9

$$\frac{6+8+(2+2)+10+(2x-1)+2}{6} = 9$$

 $\frac{6}{27+32} = 54$

3) [X=9]	
(years) No. of bonys = 20	
10 3	
15 2	
34 6 8 4	
(12x5)+(10x3)+(15x2)+(14x4)+(8x4)	
Mean 2 20	

Mean 2
$$\frac{2x}{n} = \frac{(12x5)+(10x3)+(15x2)+(14x4)+(8x4)}{20}$$

$$= \frac{11.8}{n} = Ang age of the graph boys in the locality$$

$$= \frac{200 + 360 + 150 + 120 + 96}{40}$$
$$= [23.15]$$

7) Arranging in ascending order

7a) Made is! tilghest frequency of a

b) 17 occurs 3 times. So made is 17

c) 3 occurs 8 times in derils. De modeis 3

d) No made - All numbers occur only

8) Median(given) = 25 17, 2+4, 2+7, 25, 36,46

No. of Ferms 2 6

Median z n+1 th term z 6+1 2 3.5 th term
le, mid 2

le, Malie Debusea of 3rd Lytherm

= 8, (72+7) + .35 = 25

q) After finding value of x, I will avorange the values in ascending order of the numbers are not arranged, use can get various combinations of 2rd & yth term, which may give wrious result for median.

i). I will use reclamade for the measure option "d'unhere most common color isto be identified.

mode is usually used with categorical, ordinal and discrete data. But it is the ordinal and discrete data. But it is the only measure that can be used for categorical data. In categorical data categorical data use cant order the groups.

These situations thence answer to (b) is