Assignment # 01

Name: Abdullah

Envollment: 02-131222-099

Classi BS(CS) 3-A

Subject: Probability and Stahishis:

Question # 01:

solutions

Arronge the raw data into ascending order.

21, 25, 26, 27, 28, 29, 29, 30, 31, 32, 32, 33, 33, 33, 33, 33, 34, 35, 36, 36, 36, 36, 37, 37, 37, 38, 39, 39, 40, 41, 41, 42, 42, 43, 44, 44, 45, 46, 46, 47, 48, 48, 50, 51, 52, 52, 53, 54, 54

for ideal number of classes, by sturges method.

K=1+3.33 logn

K=1+3.33 log(50)

K=6.65

K=7 approx

clar width = Ronge [No. of Closer = 33/7 = 4.7 or 5 appear

Parge = max Value-min Value = 54-21 = 33

C-B	CJ	f	cf	c-m(x)	rf
20-5-24-5	21-25	2	2	23	0.04
25.5-29.5	26-30	6	8	28	0-12
30-5 - 34-5	31-35	. 11	19	33.	0-22
35.5-39.5	36-40	10	29	38	6.2
40-5 - 44-5	41-45	9	38	. 43	0.18
45-5-49-5	46-50	6	44	48	0-12
50.5 -54.5	51-55	6	50	53	0.12
		2 f=50			

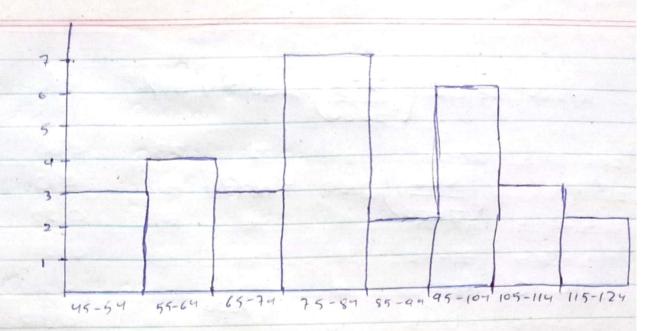
Question # 02

solution

sort thedato:

49.52,52,56,59,62,64,65,72,74,76,77-82,83, 84, 85,88,89,90,91,95,96,96,96,97,99,101,103; 104,105,109,110,116,118.

clost intervoli	frequency			
45-54	3			
55-64	y			
65-74	3			
75-84	7			
85-94	2			
95-164	. 6			
109 -114	3			
115 - 124	2			



Duestion # 03

solution

Total expenditure = food+ clothing+ Housenant+ medicine + Otheri = 950+320+500+330+400 = 2400

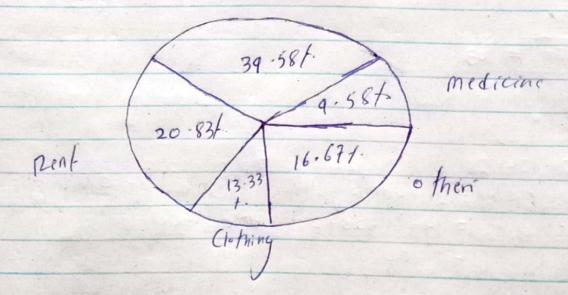
Next, we defermine the Percentage of each expenditue

food: (950) ×100 = 39.581.

Clothing = (320) x100 = 13.331.

Rent = \(\frac{500}{2400} \) x100 = 20.83/.

· food



Overtion # (04)

a

solction

= 125.7 hour

medion: since there are 10 somple: (income)
we fore overage of 5th and 6th volce

2 118 +120 2 = 119 hours

gotchon

The mojor diffeence is due to an outlier an given sample 175 is on outlier as mojority of volces lie between 110,175.

median: since there are 10 somple: (inerva)
we fore overaged str and 6th volce 118 +120 119 hours sole from The mojor diffeence is due to an outlier- an given sample 175 is on outlier as mojority of volces lie between 110,175.