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Section; 10

course : STAZOI

Assignment: 1

Am to the O: N:1 (a)

(1)

There are 10 variables listed in table 1.

A	(ii/
Vaniable	Type
Model on	Qualifative
Engine size	Quartitative
Cylinder 5	Quantitative
Transmissior	Qualitative
Number of gears	Quantitative
Fred	Qualitative
Vehicle (lass	Qualitative
city MPh	Quartitative
Huy MPh	Quartitative
Model your	Quantifative
	. *

Ans to the U.N. 1(b)

Vehicle Class	frequercy
Small SUV	2
large Car	1
Small Can	
midsize Can	3
Standard SUV	2
	Total: 10

For pie chant,

Proportion = frequency

total

"Tropontion of small but = 2 x360"

Proportion of large can = \frac{1}{10} k3600 = 360

", small can - 70 × 360° = 72°

" midsize can - 30x360

11 Standard SUV - 20 K3 60° - 72°

Pie chant!



And to the O'N' 1 (c)

Table 2: Frequency distribution of Tronsmission by
Number of gears

Ť		Vumben	of	hean's	
Thans mission	S	6	7	8	Total
Audoratic	0	3	0	4	2
Marual	Í	1	ı	0	3
Total		5	, 1	1	10

(i)

There are total 7 automatic cars, and 3 manual cars. As automatic has the highest frequency, modal response for the variable Tranmission is automatic.

(a) Proportion of vehicles with that have 7 seans

= 1 (coo / = lo/

(iii)

Propordior of automatic relicles that have

& geans - = 4 x100% - 57.14%

(iv)

Proportion of relicles with 6 gears that are Marral = { x100%

- 25%

(v)

Representing bar chart of table 2:

Marual Audomatic

5 Gear 6 Gear 6 Gear 8 Gear

Number of gages

Am to the O'N', 1(1)

MP12	Tally	frequercy	Relative frequercy	cumulative relative frequency
15 - 20	1	ı	0.1	0.1
20-25	19)	0 · 1	6.2
25-30	1111	4	0.4	0.6
30-35	u	2	0.2	0.8
35-40	11	2	0.2	1
		Total = 10		•

(i)

Proportion of relicles that have milege between 20 and 30 MPh = 10 × 100%.

(17

Proportion of vericles that have mileage of at least 30 MPh = 2+2 KLOO!.

at least 30 MPh = 10

(iii)

3 · So 20-25 25-30 30-35 35-40

HWY MPG

Ans to the 2: N; Z

Lowest temperature - 850 f

Higherd temperature = 125°F

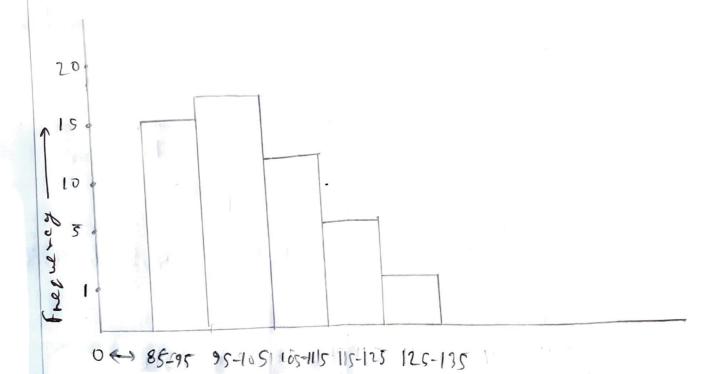
Pfrequency distpilution table is shown

below:

IHI HII HII	15
4114141	12
14111	12
141	5
.]	1
	41141111111111111111111111111111111111

Total = 50

(ii)



· Temperature ->

Figure: Histogram of the data table

From(i)

Am to the D'N:3

Steer and least display is given below."

Am leaf	Stem	·Fn leaf
	8	
4,0,5,3,5,1,0,2,0,	9	0,0,6,4,5,6,3,2
7,5,1		
4,2,3,1	10	2,5,6,3,
6,0,3,6,	11	6,9,1,3
8,5,6	12	3,2,5,5,2,8
8	13	7.
	19	
	15	8
2	16	

Sorted Hern and leaf table for Siver data:

Am leaf	Stem	for leaf
	8	
9,0,0,1,1,2,3,4,5,5,5, 5,7	9	0,0,2,3,4,5,6,6
2,3,4,9	10	2,3,5,6
0, 3, 6, 6	11	1,3,6,9
0,5,8	12	2,2,3, 5,5,8
8	13	2
	13	
	15	8
2	16	

Hene, speaf means the last digit of the movie duration and stem means the rest of the digits.

for se enamele,

sleme = Lo leafo = 9

-idaration = 109

From the table, we see that both

American and French movies have

90-99 minutes duration in most of the

movies: But the number of American

movies in 90-99 minutes nampe are is

greater than the number of French

movies in this range.

The shortest American movie is not no river and shortes french movie is of rivutes and shortes french movie is of so minutes. Longest movie for American movies is 162 minutes and the longest movies is 162 minutes, and the longest french movie is on 158 minutes.

There are more theret movies in 120-129 minute rarge that Americian movies.