BRAC UNIVERSITY

STA201

ELEMENTS OF STATISTICS AND PROBABILITY

Assignment 1

Student Information:

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SECTION: 01



Date: 22 October 2021

Date	:	<i>!</i>	/
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Anouen to the guestion no 1

a) (i) there are lo variables

(ii)

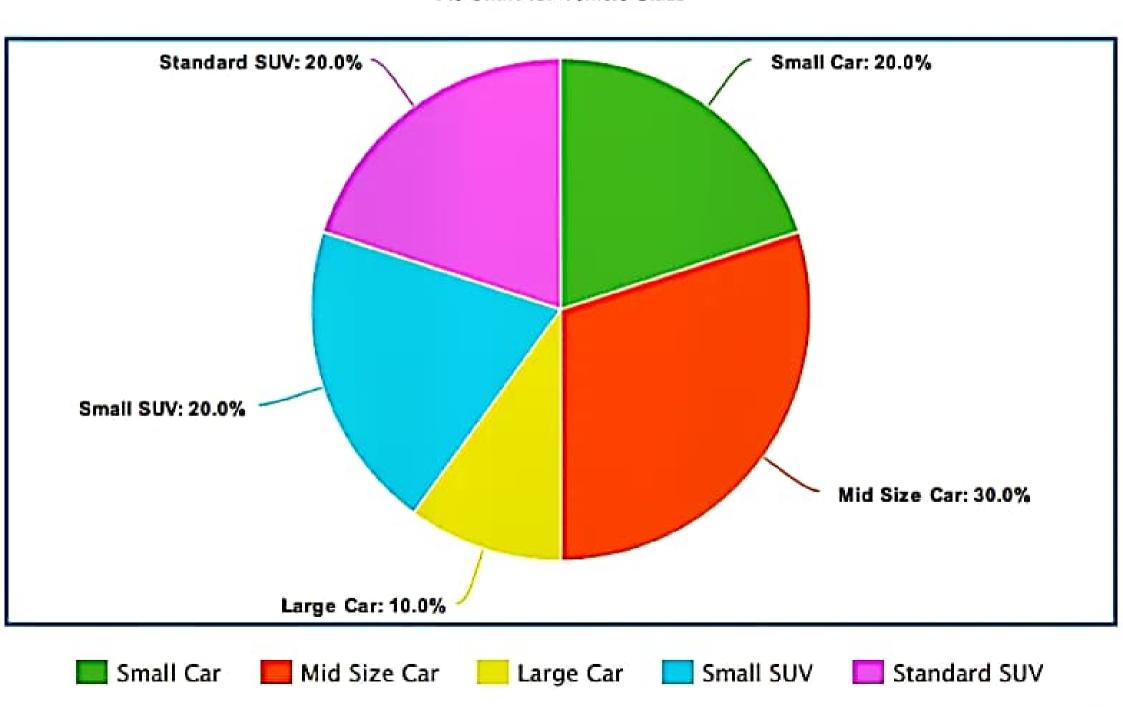
Qualitative Model	Transmission Fuel	Class	Model year
Quantitative Engine Size	Cylinders Numbers of gears	MPC.	WPG

6)

Table: Frequency distribution of the variable.

"Vehicle Class"

Vehicle Class	Frequency	Agle, 0= fx360	
Small Can	2	72*	
MidSize Ca	prod 310 - with	90108	
large can	- 12 32 32	36	
Small Sur	2 1 22 1,00 8	X2.	
Standard Su	Property of the second	72	1 20
total	10	360	1,
	Millioning succession register on con-	4; ignoning	rounding en



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by Number of George

T. Number of Gean				Total	
Transmission	2 gt	1 6 m	memon 1	80M	au libbin
Automatic	110	300	6 June	19	11:200
Manual				0	3
Total	[4		4	Po

(i) The highest forequency is hold "Automatic

(ii) 1' on 10% vehicles have Z gean

(iii) 4 proportion on 57.14 % Automatic

rehieles have 8 geas

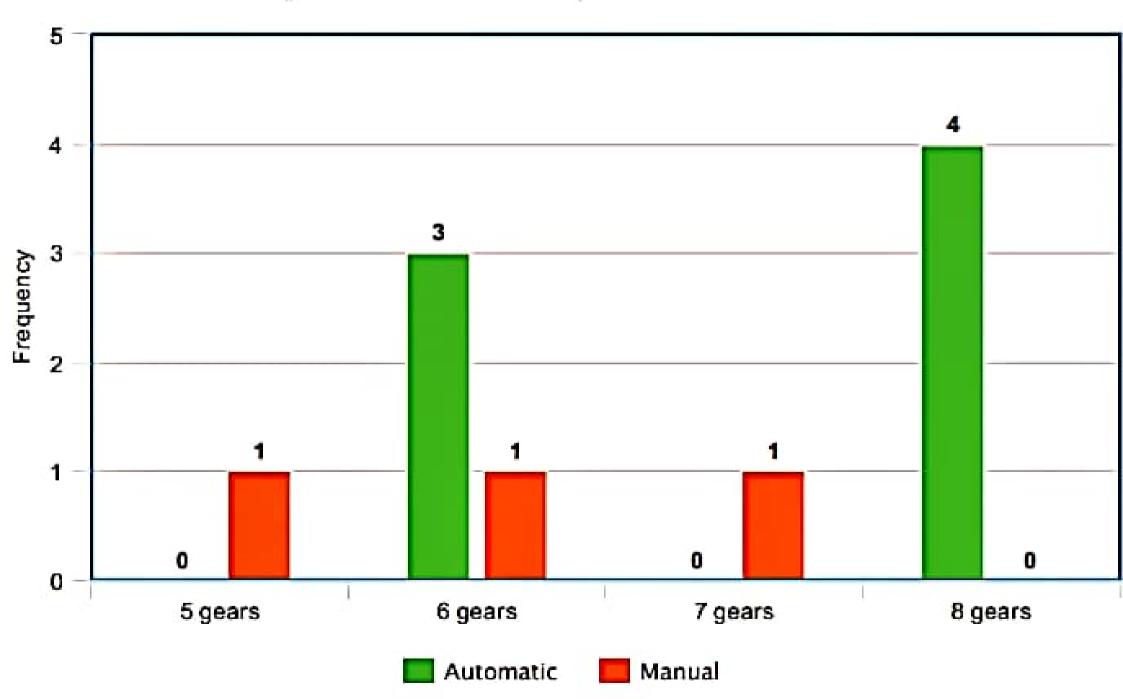
(iv) = on BB 33,33 % Manual relides have

6 gean.

(N) side by side boxe chut

Protivas

Fig: Distribution of Vehicles by Transmission and Gears



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d)

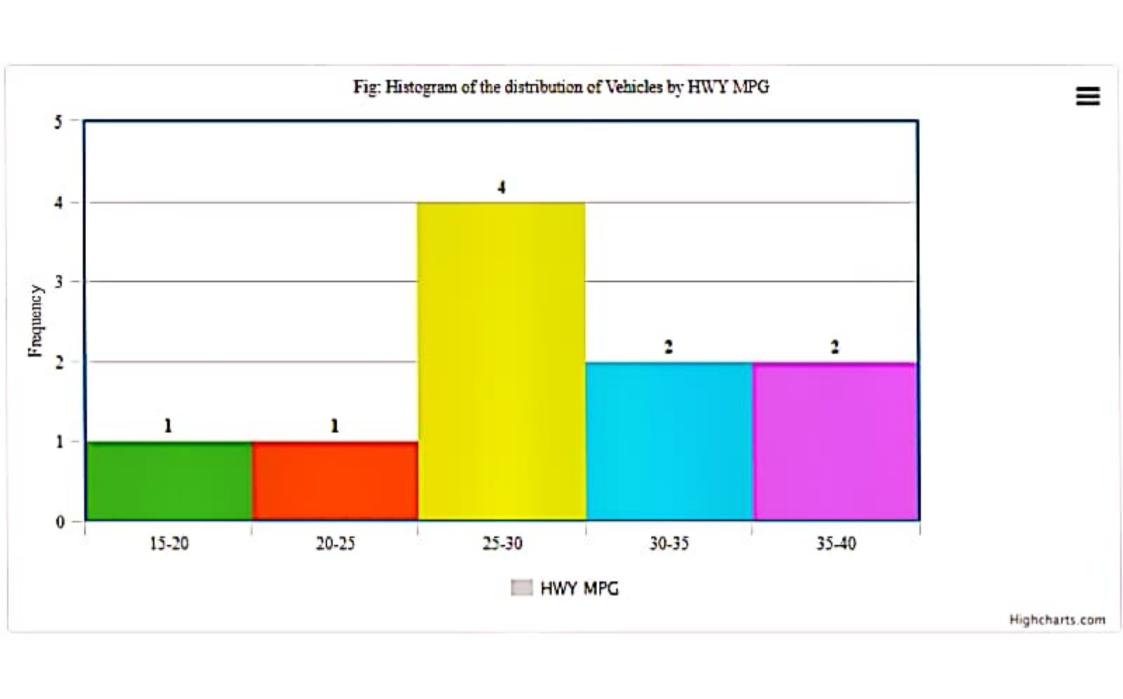
Table: Frequency distribution of Huy MPCa

THE PARTY OF THE P	V		\sim	11 / 11
Hony MPC	tally	Frequency	Reletire Frequency	Cumulative Relative soguery
15-20	53 1, 4:		10	10
20-25			1.0	10
25-30	- LLL 200 -	4.	$\frac{4}{10} = \frac{2}{5}$	10
30-35	- 11	Comment to president and a control appropriate and a control appropria	$\frac{2}{10} = \frac{1}{5}$	10
35-40	11	2	70 = 5	10
Total		10	1	

(i) = 5 Popontion of relicles have mileage between 20 and 30 MPCL

(ii) 4 papontion on 40 % of vehicles mileage greater than 30 mpcn

(ii) No to grow of the table.



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Anouen tothe question no 2

Table: Frequency distribution of thigh temperatures in degree Fahrenheit of 50 us states

Class interval *	Tally	Frequency
85-95	1111 ++++	15
95-105	 	17
10,5 - 115	+++-	12
115-125	1111	5
125-135	OI II	Jotof
Total		50

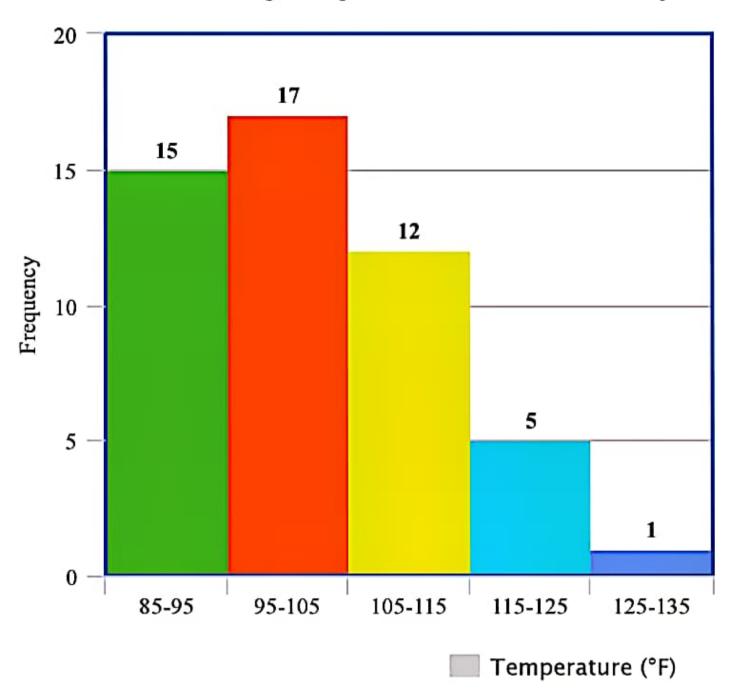
a upper class limit

(ii) histogram of the table

21d. 1 - 11 to do 14 v

Protivas

Fig: Histogram of the distribution of the Temperature of 50 Us State



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Annuar to the guestion ro 3

Fig: Stem and-least display of American and French movies by Awaring time

The same of the same and the same of the s		
Am leaves	Stem	Fn leaves
	8	CONTRACTOR A LIMITARIA DE LA CONTRACTOR DE C
7,5,5,5,4,3,2,1,1,0,0,0	9	0,0,2,3,4,5,6,6
9,4,3,2	10	2,3,5,6
6,6,3,0	Ч	1,3,6,9
8,50	12	2,2,355,8
8	13	X
	19	
	15	8
2	16	The second of the second of the second secon

From the Stem-and leaves display we can see that both American and French movies play time is mostly in Stem 9. Also we can count how many movie time in different. Also the main thing is that \$ 20015 B the nesearcher can early see from the display that both American and french morie playtine is preety similar Ann levies 1321