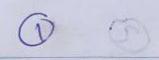
Bakry



Sub: Section
Date:

Statistics 8- 15 a study That estimates the Status of a population by using information gain from Samples.

Boulation & i's a Collection of all possible individual objects, or measurments of interest.

Sample : is a Portion of The Population of interest.

Data Matrix Overview of The Cases and Utriables.

Data Martin example & 1

	(3.15)	A William Co.	2 5/8/2	STREET, SALE	100000000000000000000000000000000000000
Student	Age	HOYL	weight	grade	
(Hohamed)	15	6_	55	100	Cases + Variables
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(2000	23	@	40	84 }	
Sare	25	e	45	93	a de la companya de l
Gales		4 20	rial b.		myen solob began

Types of Variables " Data"

(1) Categorical " Qualitative >2

DO .

Sub:

Class mid poi	nte Class	mid-point	13 (Aint	that divides
Class mid poi	aclass	Into two	equal	parts	

class midpoint

hower limit + upper limit

2

Craphical presentation of ungrouped doctor

[1] Dot aplot 30 Doto chart 20 2. Oisen'be numerical Oata

a dot plot is agraphical display of data using dots

X-axis - what is being measured.

Example 3-8. F

How long does it take to eat breakfast

minutes 0 1 2 3 4 5 5 (9) what is The Sample size?

(b) Construct a dot - plot graph?

(a) Sample size 8- 6+2+3+5+2+5 = 23

(b) dat plat grouphs the color thing him zer
times to be the temps to be the time
times to be the temps to be the time
minutes
0 1 2 3 4 5 6 minutes
Sheet 1 3- state beganger 90 nother may beside
I . The Pallouing measurements were recorded for the drying
of acertain brand of latex points
13.4 2.5 4.8 (2.9) (3.6) (3.6) (4.8 8YS = 15
2/8 53.30 5 5.63 {3.18 2/8
Assume The to The man 1 5.2 [3.0] 4.8 345 = 15
Sample & tradyand to at a simple random
(a) What is the sample size P. (1)
(b) applot the data by (C) Polling above
adot pot?
compre of se = 15
(b) dot - Plot & 2.5 0 3.6 0
4.4.0 50 4.8.04.8.0
29 0 5.6 0
45 3 25 days
منا برمانومل على على الله و من داه و منادس الله و المنوا منال مندف المنوا منال مندف المنوا منال مندف المنوا منال مندف المنود بونه
مادر، 8. ما

Date:

[2] Bar graph 3 " Bar - Chart" 8- O'scribe Categorical Data

I bar graph is agraphical display of duta using bars ">
rectangle " of different heights . A bar graph can be used to
show something changes over time or to compare items.

How to Construct a box graphs X-axis & what is being measured.

y- axis 8- has anumber for the amount of

Stuff being measured. - grandbe.

There exist gaps between the bars.

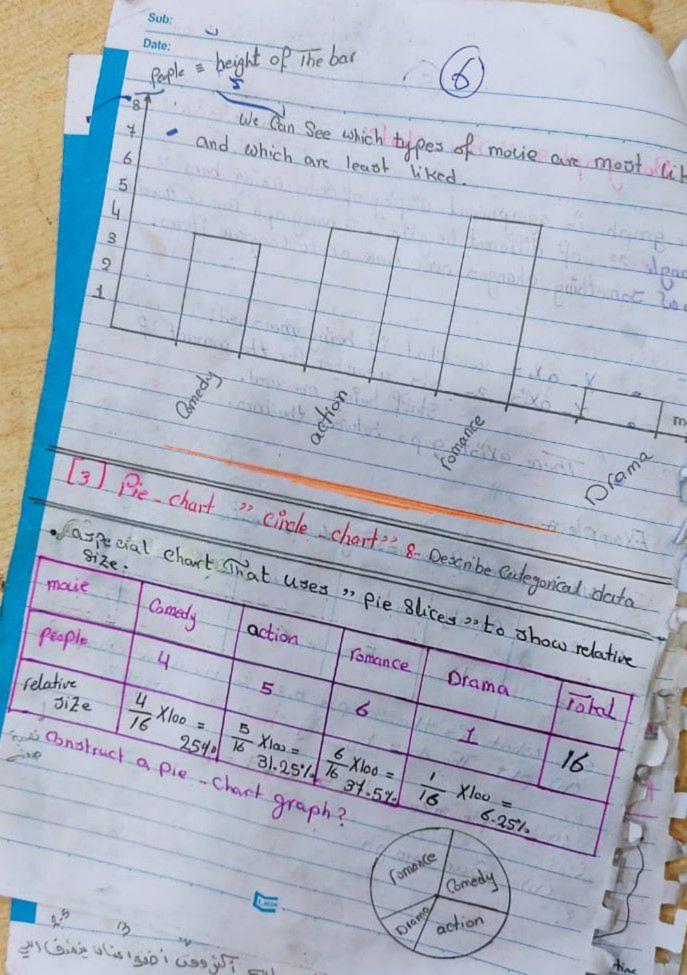
Example &

Which kind of movie may liked best

movie	Comedy	action	Comance	Orama ta	Pieco 0
people de	maH	55.	6 0	Cott	Sixing
		to by ul	size for	the above e	Xample &

(a) Sample rize = 4+5+6+1=

(b) Bar-grouph

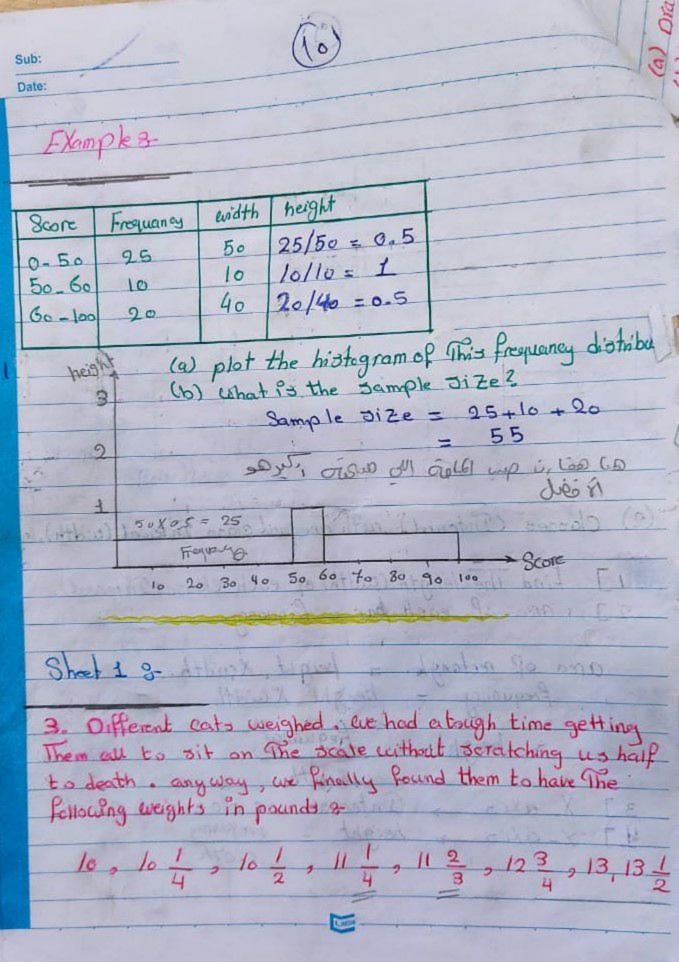


Date: 4. according to the pie graph, which of the following statements (a) Hore Than half the animals on the farm. are cows ? True (b) one quarter of The animals on The formare chicken? False True! (c) There are more pigs Than Cats on the farm? (d) Fewer Than one quarker of The onimals on the form are pigs True (e) no onto on the farm have given birth to Cows ? True Graphic presentation of agrouped datas [1] Histogram & Designibe is agraph in Which (1) The classes are marked on the horizontal axis (X-axis (2) The class frequences on The Vertical axis (Y-axis) (3) No gaps between the bars.
(4) display of data Using bars (rectangle) We have 1600 Coses 3 (1) choses (Interval with equal chas interval (widths))

Sheet 1

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	Date:				9)			1/3
					1 111			2
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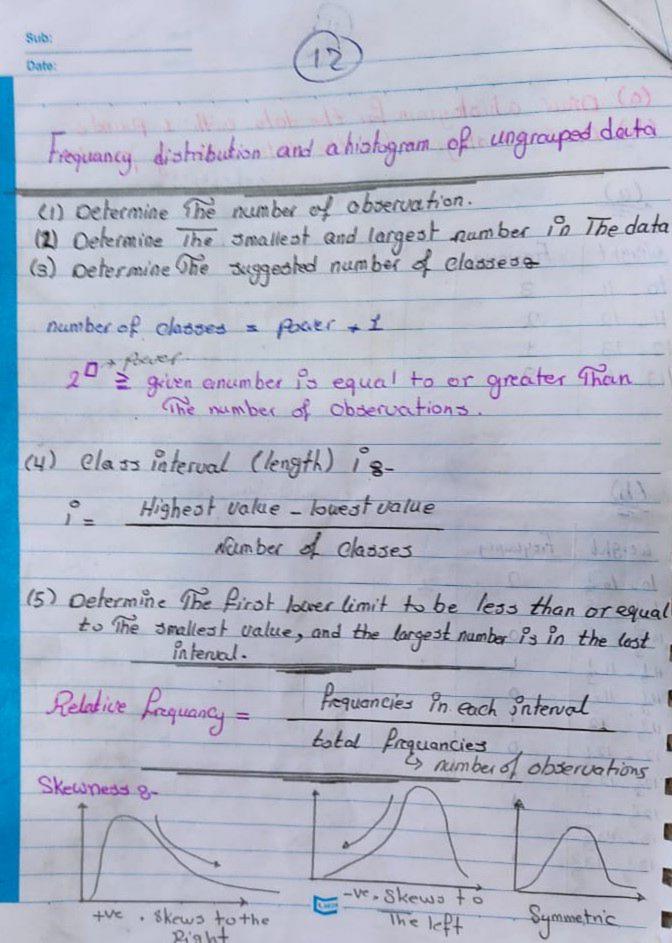
30 troquancy Date: 25 26 15 OH 10 all to incompanie and tola (a) deman of the last told 11 . 81 85 . 89 (2) Classes (Interval) with anequal class Interval (width), le 1] Find The length (width) of each classe (Interval)
2] area of each bar = frequency. Greancy = height X width son is the son height = frequency and sind at must know which have me 3] X- axis - Intervals or class mid point 4] Y-axis - height - Frequency



Sub:

Date:

(0) 0000 - 1.1 0 0 0 11 00 00 12						
(a) Draw a histogram for the data with 1 pounds						
CON DOB	aw a histo	gram for the data with 1 pounds				
		22 number of Cats				
(a)	and the same of					
THE RESIDENCE AND PARTY OF	al red mun					
Weight	Frequency	(3) Cotormine Offer suggested to mines of the				
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11_12	2	Cumber of cleanes a party of				
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10-11	العي عامن ال	10 11 12 . 13 14 15				
13-14	1571 911	(4) VIGITS Internal 1 (41) 1767 1 8-				
(6)	(Orcesolair)	Frequental soumbar of catsos				
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weight.	trequancy	ACCRETE OF CHARLES				
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12 1 12 2	0	10 1910 11 110 110 10 110 110 110				
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13 - 13 -	1					
13 1 132	1					



Sub: Date:

Sheet 1 s-

throughout passage 7. The following data represent the kength of life, in seconds 16 18 8 13 3 32 9 7 10 11 13 7 18 7 10 4 24 19 16 8 7 10 5 14 15 10 9 6 7 15 20 th do 20 Hz 20

Set up arelative frequency distribution and construct a relativ Preguancy histogram ? and disturb The Skeleness of The distribution?

- number of Observation = 50
- lorgest value = 32 Smalles value = 3
- 3) $2^{\square} \geq 50 \rightarrow 2^{6} = 64 > 50$ number of classes (intervals) = 6+1=7
- length of each interval = $\frac{32-3}{7} = \frac{29}{7} = 4.1$ 4)
- 5) She first lower limit can be any number from 0 to 3

Strail Frequenty Nino = 12 mis Frequency mid-point relative Frequency 10 - 14 15+19 = 17 20+24 = 22 25+29 = 27 30+34 = 35 50 = 0.02 50 E 3.3. 8-12 4-8 5, 32 28 - 35 16.20 20-24 08 3x- 35 Right

Relative Frequency Sub: Date: 0.36 0.34 0 - 82 0.3 0-28. 0.26 0-24-0.22 0.2 0.18 0-16 0.14 0. 12 0.1 0.08 0-06 0.04 0.02 15 25 The distribution Skews to The Right