

* Statistic which means is a study that estimates the status of a population by using information gained from sample.

* Data Matrix: over of The Cases and Variable

Name	Age	weight	Mail	grade

* Type of variable → Categorical → Can't be measured
 → Numerical → Can be measured

* Graphical Presentation: Describing data using graph to understand data.

(1) Dot Plot

Display data using dots
 x-axis → what being measured

Example:

How long does it take to eat breakfast

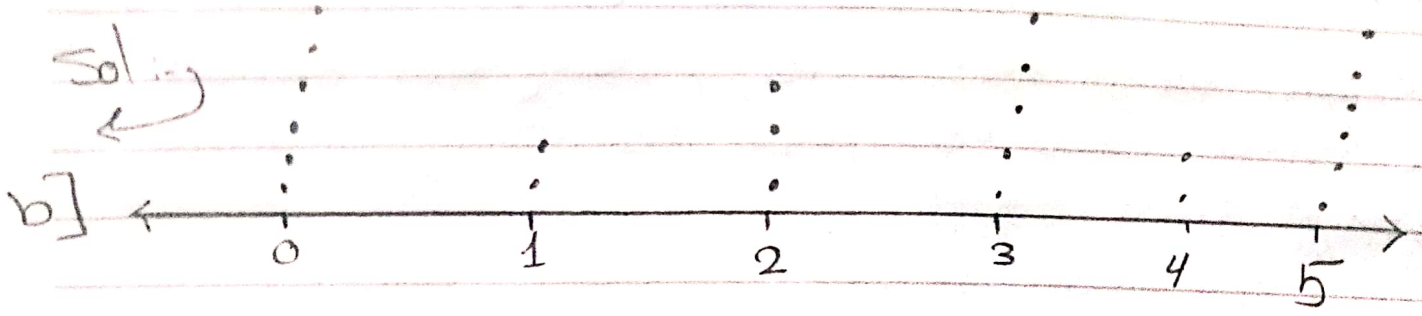
minutes	0	1	2	3	4	5
People	6	2	3	5	2	5

a] what is the sample size?

b] Construct data using a dot plot graph?

Sol: ↪

a] $6 + 2 + 3 + 5 + 2 + 5 = 23$



*(2) Bar graph "Bar chart"

→ Display data using bars "Rectangle"

x-axis → what is being measured

y-axis → Frequency

* There exist gaps between the bars.

* The width of Bars must be equals.

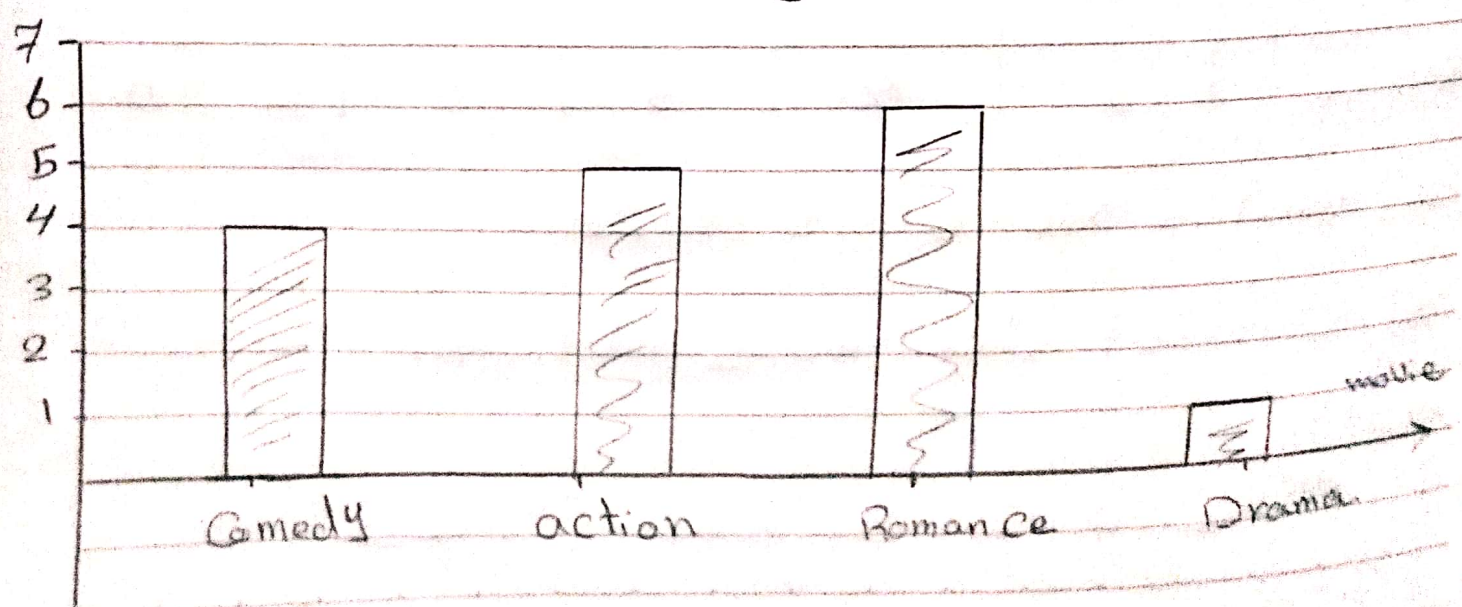
Example :-

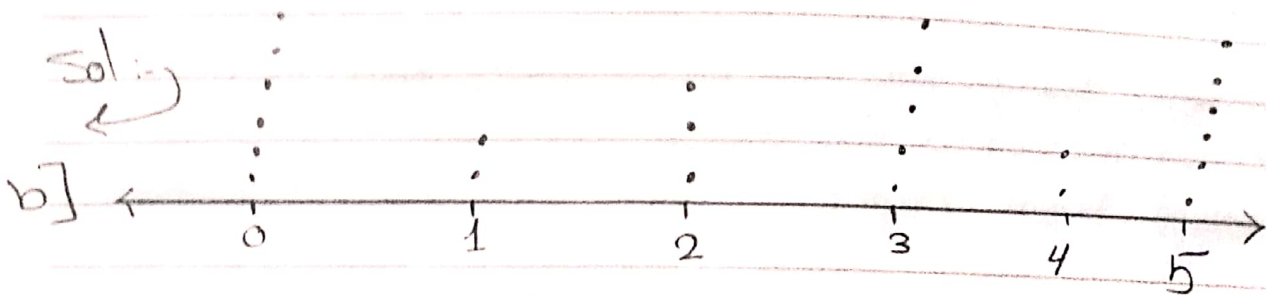
Which movie They liked best ?

movie	Comedy	action.	Romance	Drama
People	4	5	6	1

a] What is the sample size ? = $4 + 5 + 6 + 1 = 16$

b] Construct data using graph ?





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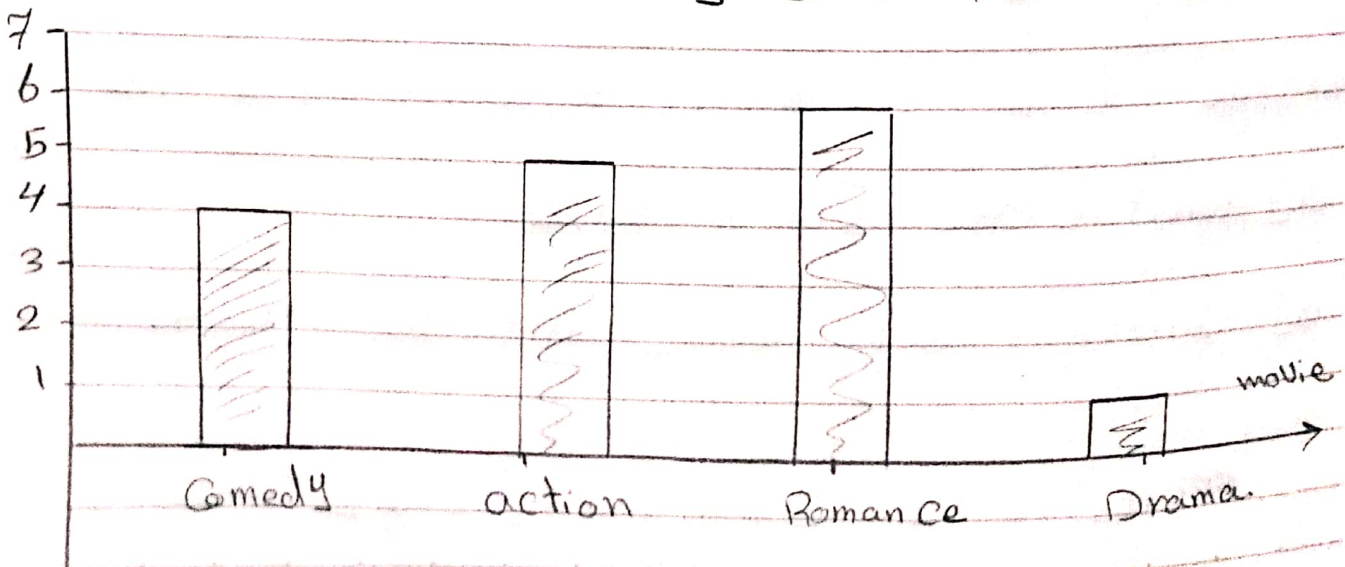
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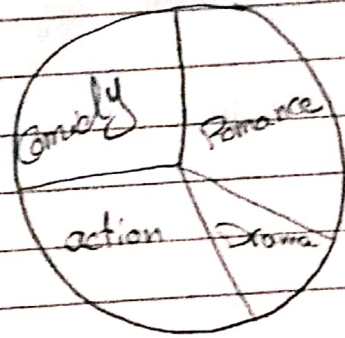


* (3) Pie chart "Circle Chart"
 a special chart that uses "Pie-slices"

Example. Same example of Bar graph

movie	Comedy	action	Romance	Drama	total
Popole	4	5	6	1	16
percent	$\frac{4}{16} \times 100$ = 25%	$\frac{5}{16} \times 100$ = 31.25%	$\frac{6}{16} \times 100$ = 37.5%	$\frac{1}{16} \times 100$ = 6.25	—

Solⁿ Drawing



From sheet one

The drying Time

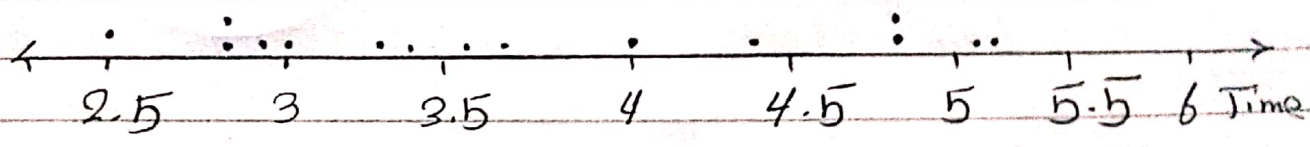
3.4	2.5	4.8	2.9	3.6
2.8	3.3	5.6	3.7	2.8
4.4	4.0	5.2	3.0	4.8

a) what a sample size?

Solid

$$\text{size} = 5 \times 3 = 15$$

b) Plot data by way of dot plot?



and so on

* True or False

a) more than half are cows? True

b) one quarter are chicken? False

c) There are more Pigs than cats? True

d) Fewer than one quarter pigs? True

e) no cats on the farm have given birth to cows? True

