

Female mortality rate (%)

50
40
30
20
10
0

Reproductive health

Neuropsychiatric condition

Injuries

Cardiovascular condition

Respiratory conditions

Other causes

21

35
28
14
5
25

Statistics

Date: _____

14.3

- ① A Survey conducted by an organisation for the cause of illness and death among the women between the ages 15-44 (in years) worldwide found the following figures (in %)

S.No.	Causes	Female fatality rate (%)
01	Reproductive health conditions	31.8
02	Neuropsychiatric conditions	25.4
03	Injuries	19.4
04	Cardiovascular conditions	4.3
05	Respiratory conditions	11.1
06	Other causes	9.0

- (i) Represent the information given above graphically.
- (ii) Which condition is the major cause of women's ill health and death worldwide?

(ii) ~~ii~~ Reproductive health condition is the major cause of women's ill health and death world wide as 31.8% of women are effected by it

(iii) Find any two factors which play a major role in the cause in (ii) above being the major cause.

→ Factors :- ① Lack of medical facilities
② Lack of correct knowledge of treatment.

(iv) The length of 40 leaves of a plant are measure -d correct to one millimetre, and the obtained data ^{in table}

→ To make classes continuous
 $\frac{1}{2}$ of difference between consecu

$$\text{+ive upper \& lower limit} = \frac{1}{2} (136 - 135)$$

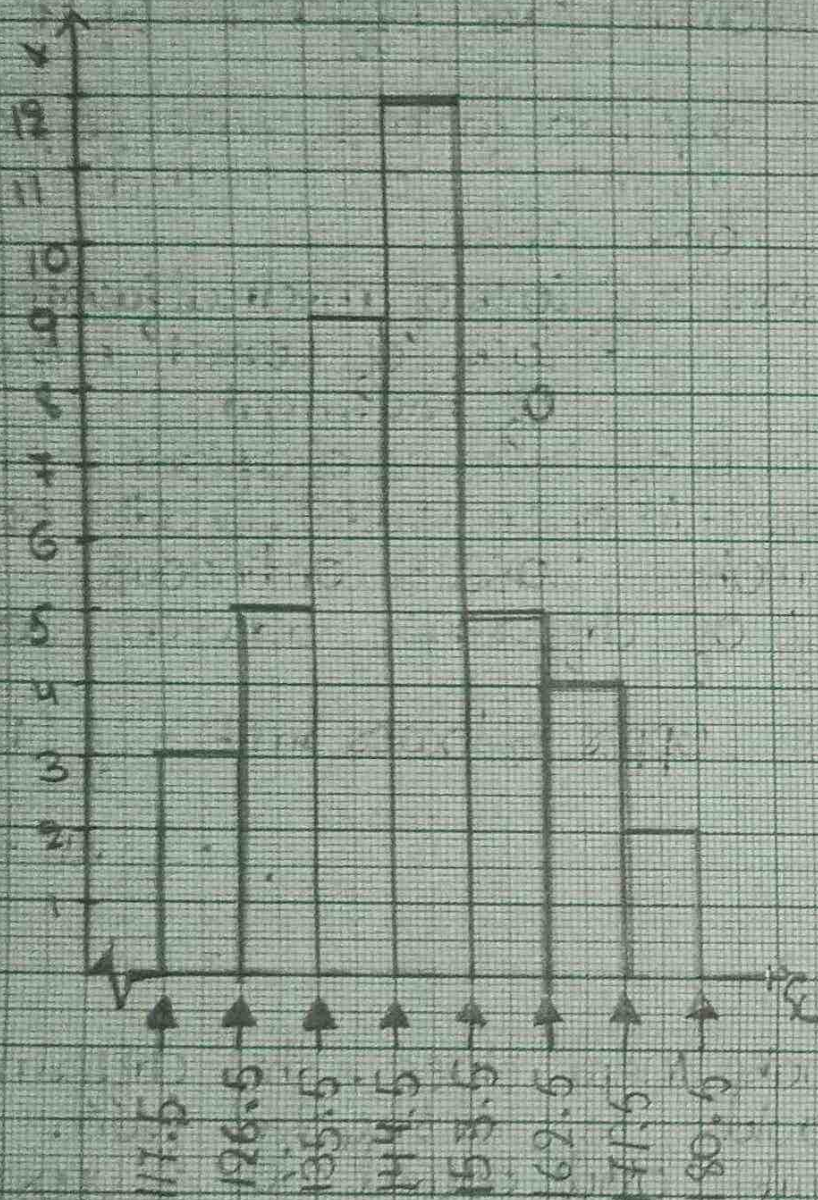
$$= \frac{1}{2} \times 1 = \frac{1}{2}$$

$$= 0.5$$

To make new class, this difference (0.5) should be subtracted from lower limit and added to upper limit

The new classes will be $(118 - 0.5 - 126 + 0.5)$
 $= (117.5 - 126.5)$

Along Years
Unit = 1 leaf



Length (in mm) (classes)	Number of leaves (Freq)
117.5 - 126.5	3
126.5 - 135.5	5
135.5 - 144.5	9
144.5 - 153.5	12
153.5 - 162.5	5
162.5 - 171.5	4
171.5 - 180.5	2

(i) Draw a histogram to represent the given data.
 → done.

(ii) Is there any other suitable graphical representation for the same data?
 → Other suitable graphical representation of this data is frequency polygon.

(iii) Is it correct to conclude that the maximum number of leaves are 153 mm long?
 Why?
 → No, as maximum number of leaves (i.e., 12) has their length in between 144.5 mm to 153.5 mm. It is not necessary that all have their length as 153 mm.

Y-axis
1 unit = 100 girls

No. of Girls Per thousand boys →

SC

ST

Non-SC/ST

Backward Districts

Non-Backward Districts

Rural

Urban

Section →



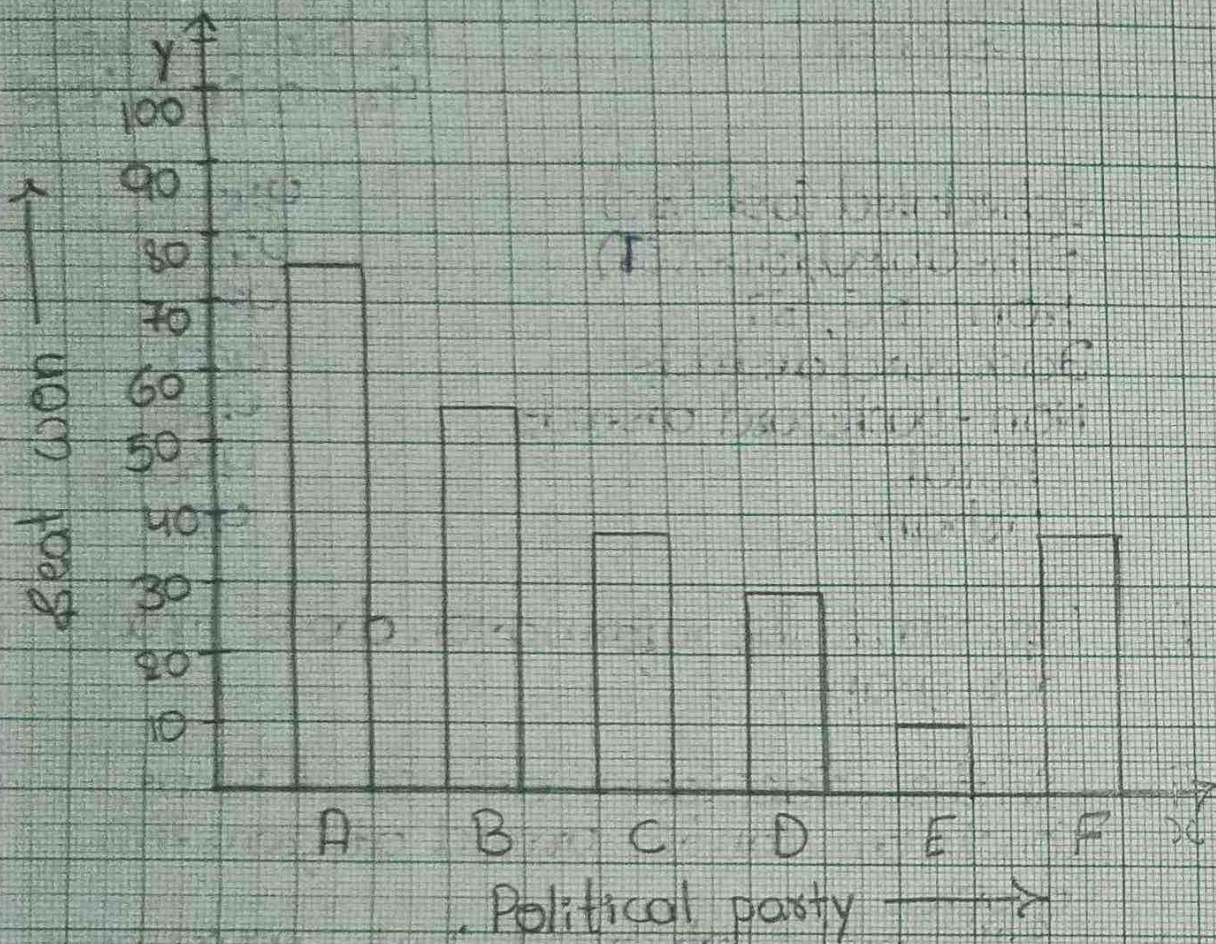
- ② The following data on the number of girls (to the nearest ~~ten~~) per thousand boys in different sections of Indian Society is given below.

<u>Section</u>	<u>Number of girls</u> <u>Per thousand boys</u>
Scheduled Caste (SC)	940
Scheduled tribe (ST)	970
Non SC/ST	920
Backward districts	950
Non-backward districts	990
Rural	930
Urban	910

- (i) Represent the information above by a bar graph.

- (ii) In the classroom discuss & what conclusion can be arrived at from the graph.

→ It can be observed that maximum number of girls per thousand boys (i.e. 970) is for ST and minimum number of girls per thousand boys (i.e. 910) is for urban. Also, number of girls per thousand boys is greater in rural areas than that



Date: _____

in rural than that in urban areas
backward districts than that in
non-backward districts, SC and
ST than that in non SC/ST

- ③ Given below are the seats won by different political parties in the polling outcome of a ~~state~~ assembly election.

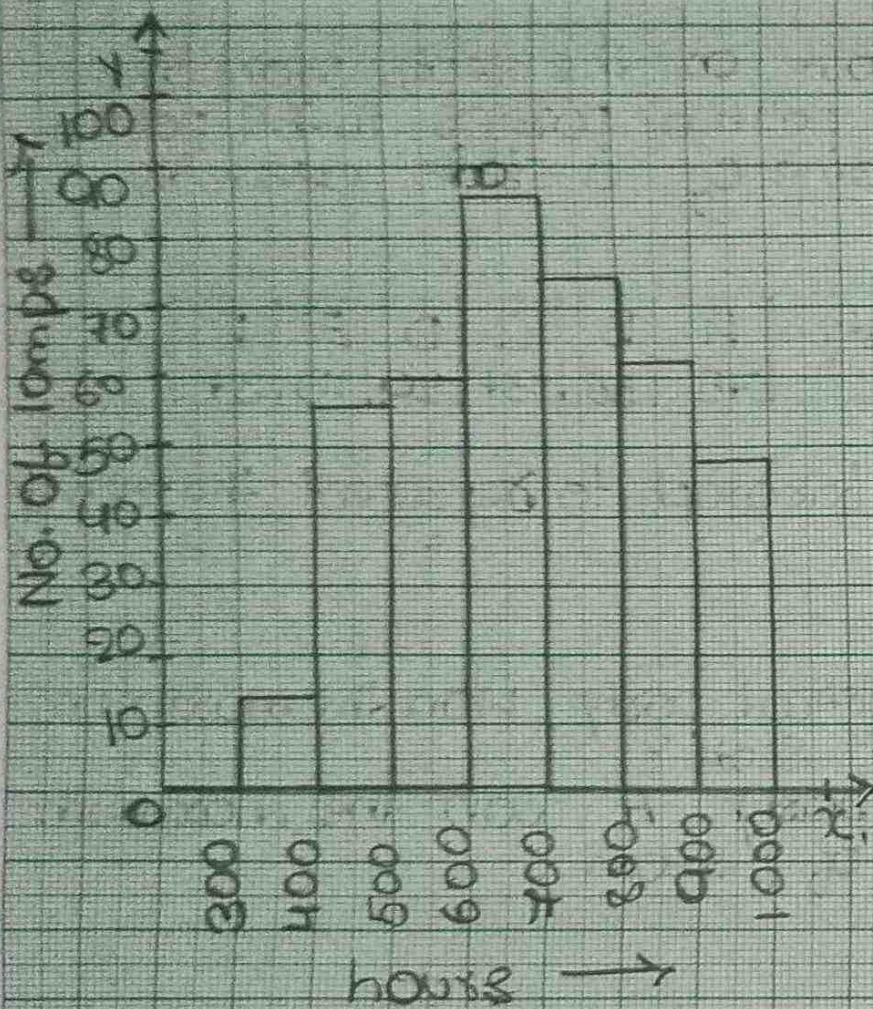
Political Party	A	B	C	D	E	F
Seat won	75	55	37	29	10	37

- (i) Draw a bar graph to represent the polling results.
→ Done

- (ii) Which political party won the maximum number of seats?
→ Political party 'A' won the maximum number of seats

Y-axis

1 unit = 10 lamps



- ⑤ The following table gives the life times of 400 neon lamps:

Life time (in hours)	Number of lamps
300 - 400	14
400 - 500	56
500 - 600	60
600 - 700	86
700 - 800	74
800 - 900	62
900 - 1000	48

- (i) Represent the given information with the help of a histogram.
→ Done

- (ii) How many lamps have a life time of more than 700 hours?
→ $\begin{array}{l} \text{life time} \quad \text{Number of lamps having} \\ \text{life time more than 700 hours} = \\ 74 + 62 + 48 = 184 \text{ lamps.} \end{array}$