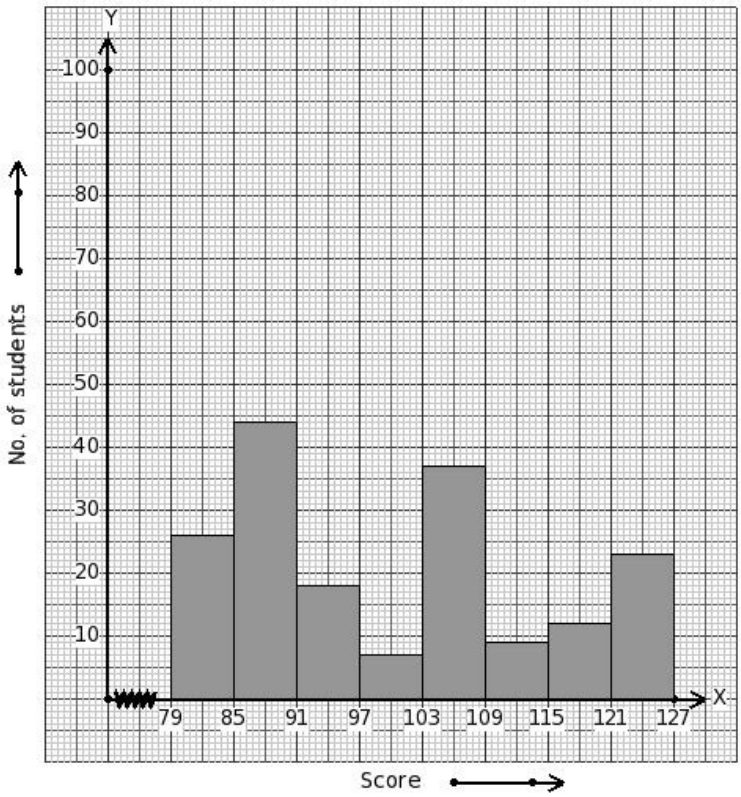
EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Graphical Representation of Statistical Data

Grade : ICSE Grade IX

1. Scores of 176 students are given below. Identify the class interval table for the given histogram.



(i)

Score	79 - 85	85 - 91	91 - 97	97 - 103	103 - 109	109 - 115	115 - 121	121 - 127
No. of students	26	23	18	7	37	9	12	44

(ii)

Score	79 - 85	85 - 91	91 - 97	97 - 103	103 - 109	109 - 115	115 - 121	121 - 127
No. of students	26	44	22	7	37	9	12	23

(iii)

Score	79 - 85	85 - 91	91 - 97	97 - 103	103 - 109	109 - 115	115 - 121	121 - 127
No. of students	26	44	18	7	35	9	12	23

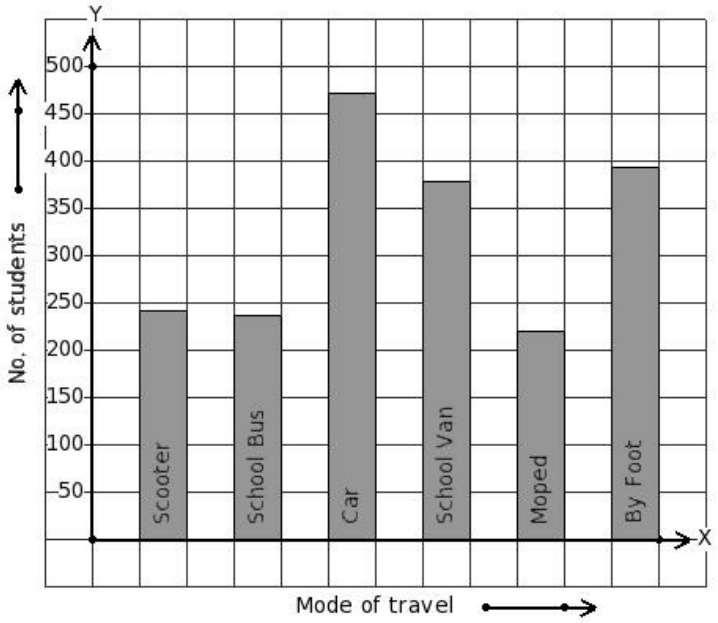
(iv)

Score	79 - 85	85 - 91	91 - 97	97 - 103	103 - 109	109 - 115	115 - 121	121 - 127
No. of students	26	44	7	18	37	9	12	23

(v)

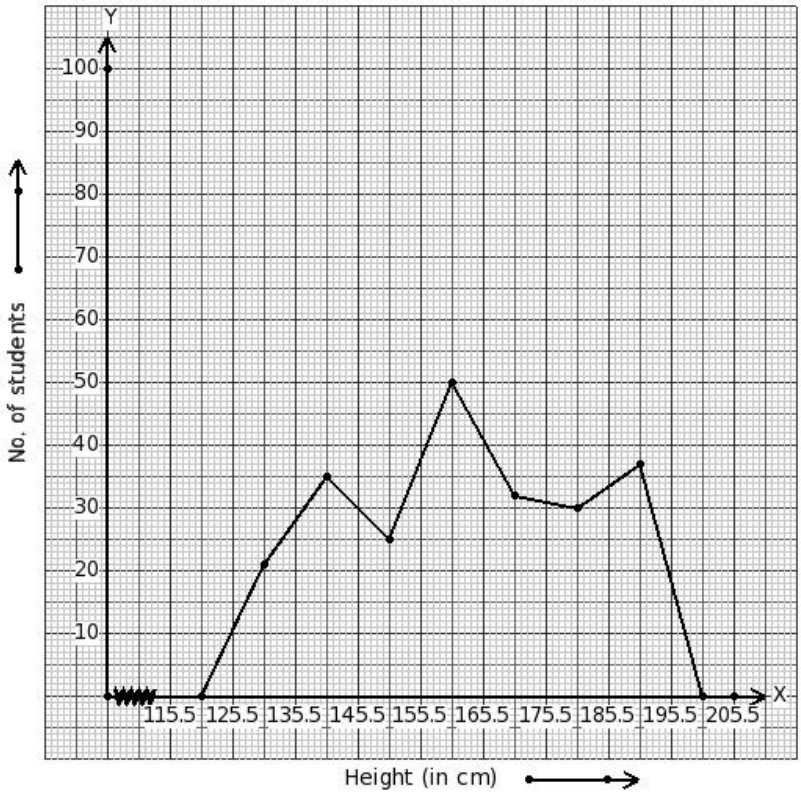
Score	79 - 85	85 - 91	91 - 97	97 - 103	103 - 109	109 - 115	115 - 121	121 - 127
No. of students	26	44	18	7	37	9	12	23

2. Students of a certain locality use different modes of travel to school as given below. Find the mode of travel that has maximum students.



(i) Car (ii) Scooter (iii) School Van (iv) By Foot (v) School Bus

3. Heights of 230 students (in cm) are given below. Identify the class interval table for the given frequency polygon.



(i)

Height (in cm)	126 - 135	136 - 145	146 - 155	156 - 165	166 - 175	176 - 185	186 - 195
No. of students	21	35	25	50	32	30	37

(ii)

Height (in cm)	126 - 135	136 - 145	146 - 155	156 - 165	166 - 175	176 - 185	186 - 195
No. of students	21	25	35	50	32	30	37

(iii)

Height (in cm)	126 - 135	136 - 145	146 - 155	156 - 165	166 - 175	176 - 185	186 - 195
No. of students	21	37	25	50	32	30	35

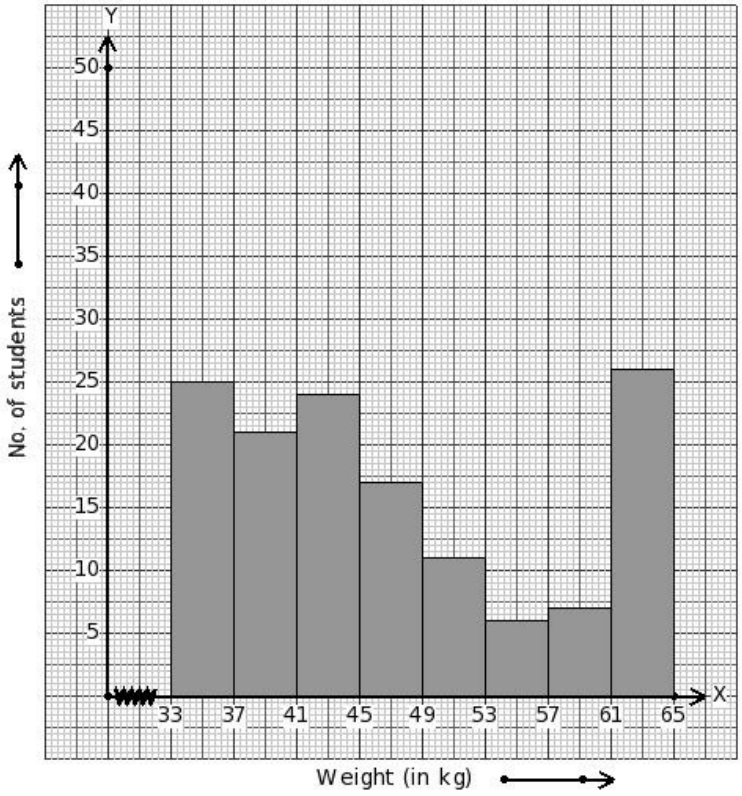
(iv)

Height (in cm)	126 - 135	136 - 145	146 - 155	156 - 165	166 - 175	176 - 185	186 - 195
No. of students	21	35	29	50	32	30	37

(v)

Height (in cm)	126 - 135	136 - 145	146 - 155	156 - 165	166 - 175	176 - 185	186 - 195
No. of students	21	35	25	45	32	30	37

4. Identify the class interval table for the given histogram.



(i)

Weight (in kg)	33 - 37	37 - 41	41 - 45	45 - 49	49 - 53	53 - 57	57 - 61	61 - 65
No. of students	25	21	24	17	9	6	7	26

(ii)

Weight (in kg)	33 - 37	37 - 41	41 - 45	45 - 49	49 - 53	53 - 57	57 - 61	61 - 65
No. of students	25	21	24	17	11	6	7	26

(iii)

Weight (in kg)	33 - 37	37 - 41	41 - 45	45 - 49	49 - 53	53 - 57	57 - 61	61 - 65
No. of students	25	21	17	24	11	6	7	26

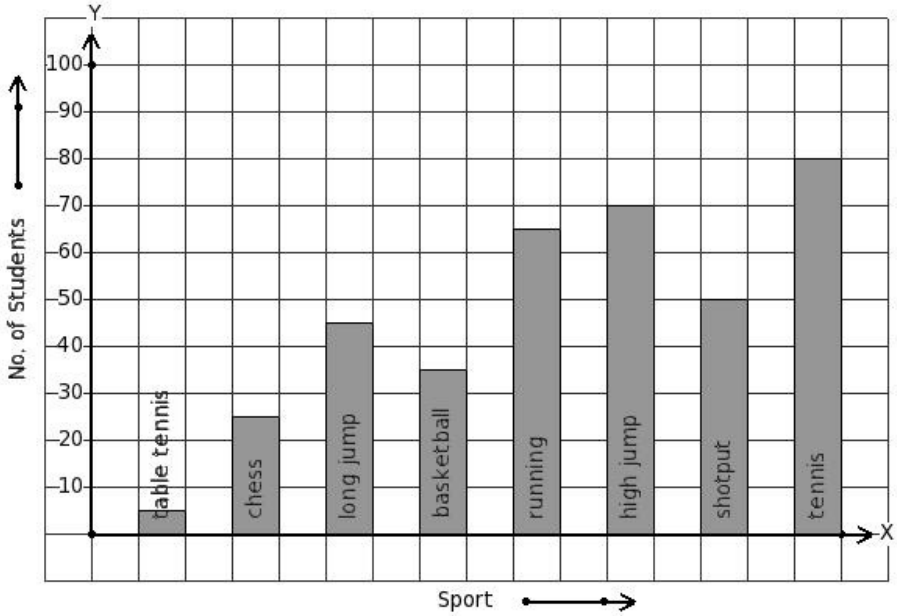
(iv)

Weight (in kg)	33 - 37	37 - 41	41 - 45	45 - 49	49 - 53	53 - 57	57 - 61	61 - 65
No. of students	25	21	20	17	11	6	7	26

(v)

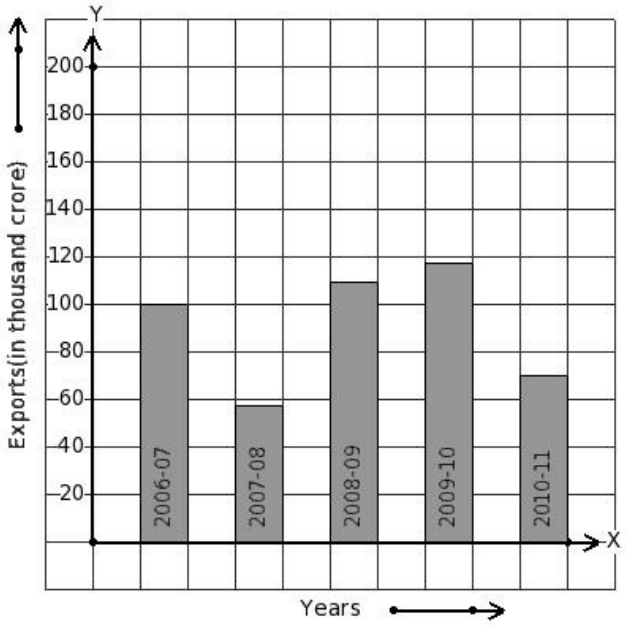
Weight (in kg)	33 - 37	37 - 41	41 - 45	45 - 49	49 - 53	53 - 57	57 - 61	61 - 65
No. of students	25	26	24	17	11	6	7	21

5. Given the bar graph, find the minimum frequency



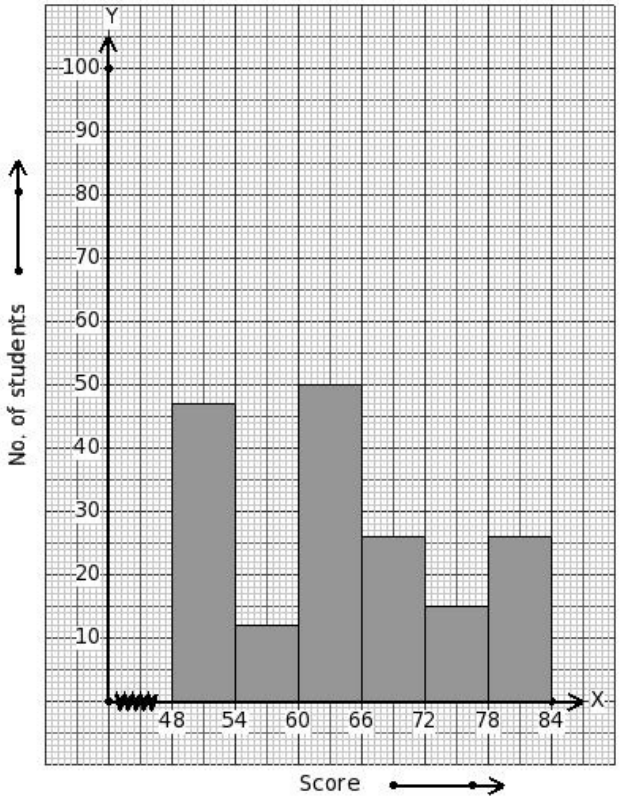
(i) 10 (ii) 5 (iii) 20 (iv) 0 (v) 15

6. The following bar graph shows the export earnings of a country (in thousand crore) during five years. Find the year that has 100 thousand crore export earnings.



(i) 2007-08 (ii) 2006-07 (iii) 2009-10 (iv) 2010-11 (v) 2008-09

7. Scores of 176 students are given below. Identify the class mark table for the given histogram.



(i)

Score	51	57	63	69	75	81
No. of students	47	50	12	26	15	26

(ii)

Score	51	57	63	69	75	81
No. of students	47	26	50	26	15	12

(iii)

Score	51	57	63	69	75	81
No. of students	47	12	50	26	15	26

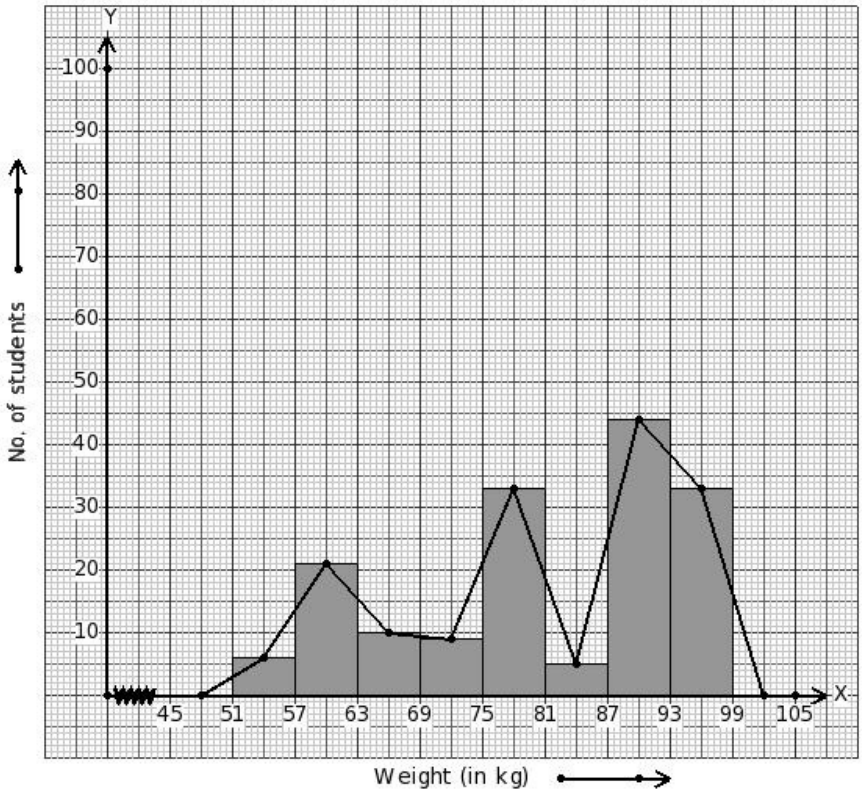
(iv)

Score	51	57	63	69	75	81
No. of students	47	12	50	31	15	26

(v)

Score	51	57	63	69	75	81
No. of students	47	12	46	26	15	26

8. Weights of 161 students (in kg) are given below.
Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

Weight (in kg)	51 - 57	57 - 63	63 - 69	69 - 75	75 - 81	81 - 87	87 - 93	93 - 99
No. of students	6	21	10	9	28	5	44	33

(ii)

Weight (in kg)	51 - 57	57 - 63	63 - 69	69 - 75	75 - 81	81 - 87	87 - 93	93 - 99
No. of students	6	33	10	9	33	5	44	21

(iii)

Weight (in kg)	51 - 57	57 - 63	63 - 69	69 - 75	75 - 81	81 - 87	87 - 93	93 - 99
No. of students	6	21	10	9	33	5	44	33

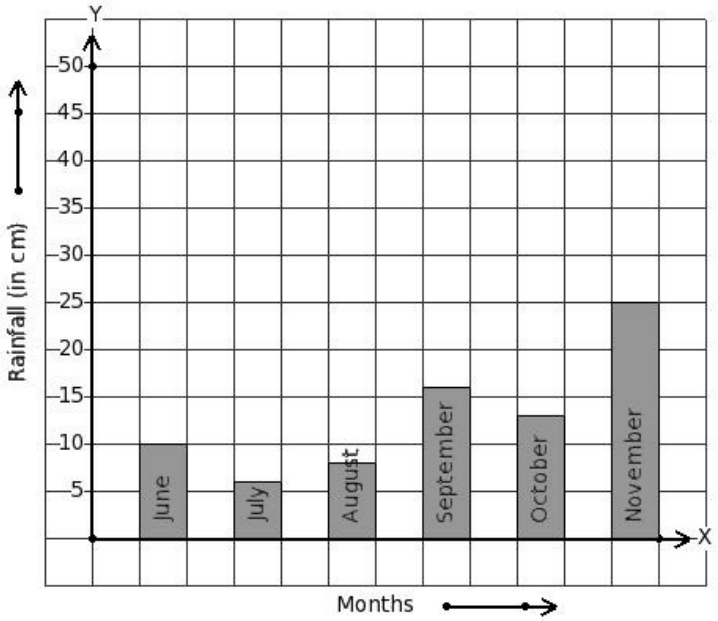
(iv)

Weight (in kg)	51 - 57	57 - 63	63 - 69	69 - 75	75 - 81	81 - 87	87 - 93	93 - 99
No. of students	6	21	9	10	33	5	44	33

(v)

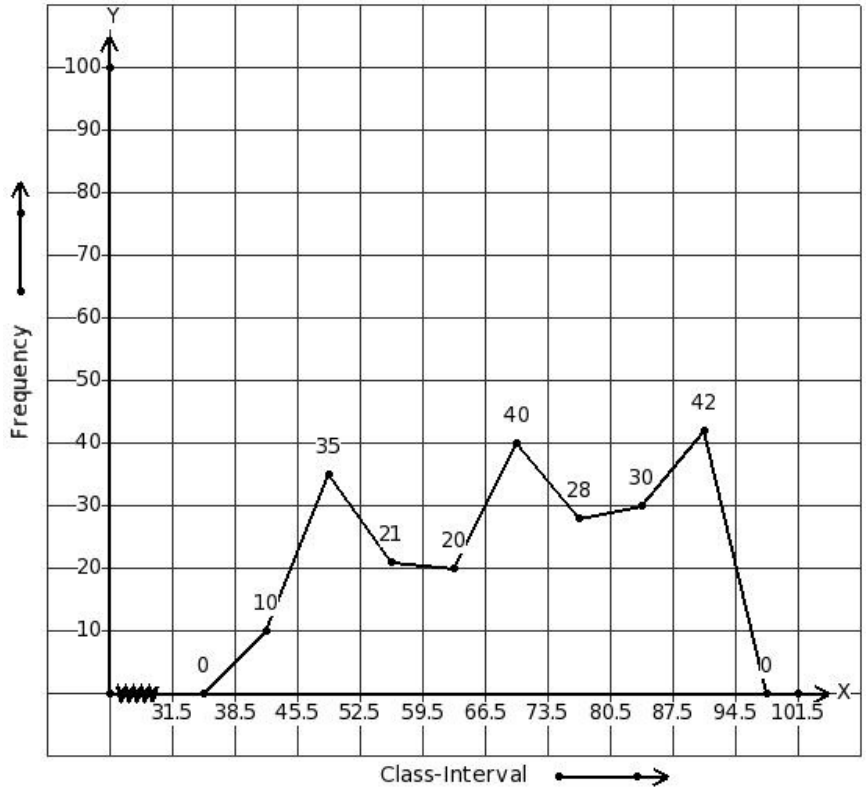
Weight (in kg)	51 - 57	57 - 63	63 - 69	69 - 75	75 - 81	81 - 87	87 - 93	93 - 99
No. of students	6	21	13	9	33	5	44	33

9. Read the given column-graph. Find the month that has minimum rainfall.



(i) August (ii) October (iii) November (iv) July (v) September

10. Identify the class interval table for the given frequency polygon.



(i)

Class-Interval	39 - 45	46 - 52	53 - 59	60 - 66	67 - 73	74 - 80	81 - 87	88 - 94
Frequency	10	35	21	20	40	28	30	42

(ii)

Class-Interval	39 - 45	46 - 52	53 - 59	60 - 66	67 - 73	74 - 80	81 - 87	88 - 94
Frequency	10	42	21	20	40	28	30	35

(iii)

Class-Interval	39 - 45	46 - 52	53 - 59	60 - 66	67 - 73	74 - 80	81 - 87	88 - 94
Frequency	10	35	20	21	40	28	30	42

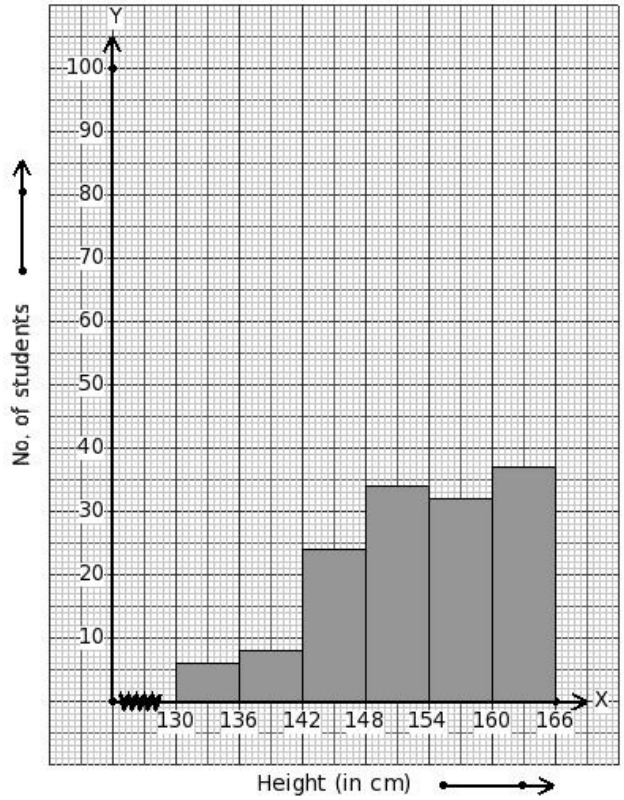
(iv)

Class-Interval	39 - 45	46 - 52	53 - 59	60 - 66	67 - 73	74 - 80	81 - 87	88 - 94
Frequency	10	35	21	20	38	28	30	42

(v)

Class-Interval	39 - 45	46 - 52	53 - 59	60 - 66	67 - 73	74 - 80	81 - 87	88 - 94
Frequency	10	35	19	20	40	28	30	42

11. Heights of 141 students (in cm) are given below. Identify the class mark table for the given histogram.



(i)

Height (in cm)	133	139	145	151	157	163
No. of students	6	8	29	34	32	37

(ii)

Height (in cm)	133	139	145	151	157	163
No. of students	6	24	8	34	32	37

(iii)

Height (in cm)	133	139	145	151	157	163
No. of students	6	8	24	31	32	37

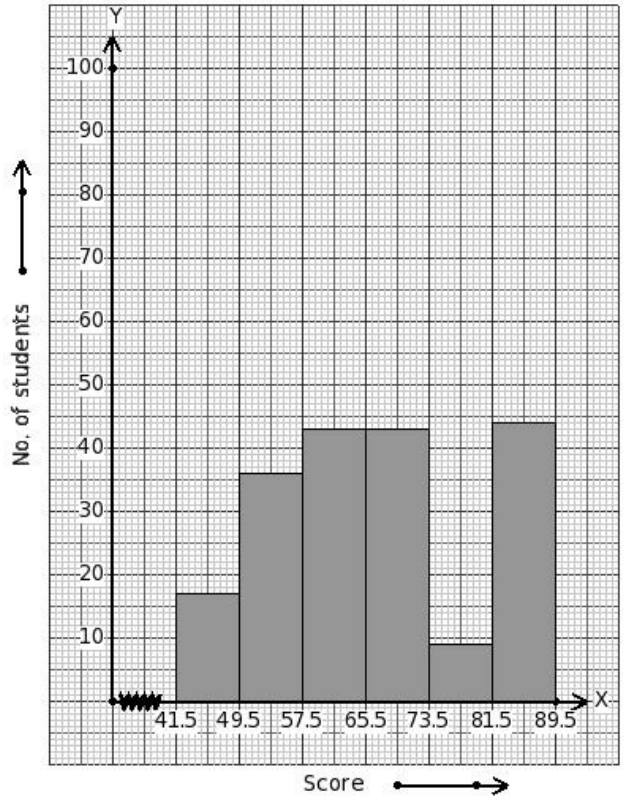
(iv)

Height (in cm)	133	139	145	151	157	163
No. of students	6	8	24	34	32	37

(v)

Height (in cm)	133	139	145	151	157	163
No. of students	6	37	24	34	32	8

12. Scores of 192 students are given below. Identify the class mark table for the given histogram.



(i)

Score	45.5	53.5	61.5	69.5	77.5	85.5
No. of students	17	44	43	43	9	36

(ii)

Score	45.5	53.5	61.5	69.5	77.5	85.5
No. of students	17	36	47	43	9	44

(iii)

Score	45.5	53.5	61.5	69.5	77.5	85.5
No. of students	17	36	43	43	9	44

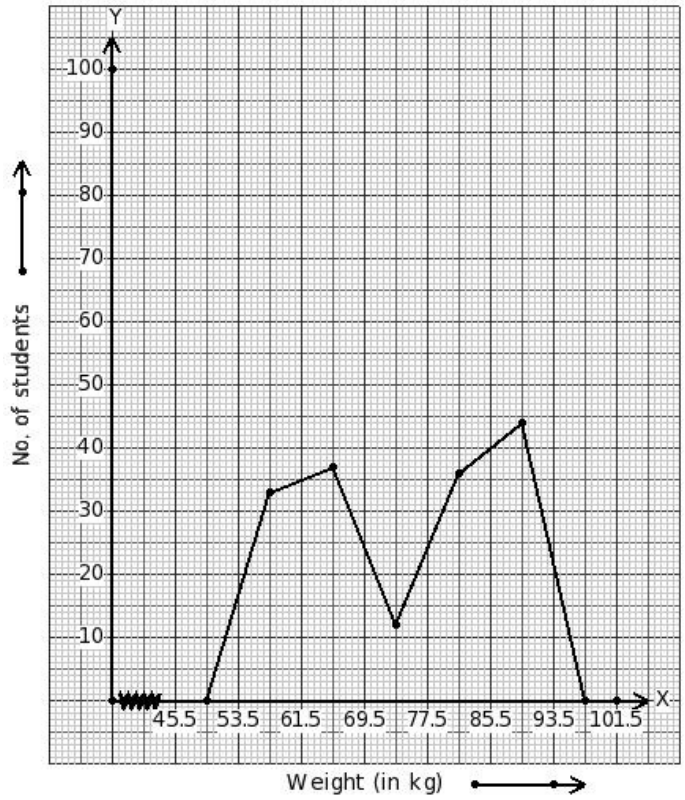
(iv)

Score	45.5	53.5	61.5	69.5	77.5	85.5
No. of students	17	43	36	43	9	44

(v)

Score	45.5	53.5	61.5	69.5	77.5	85.5
No. of students	17	36	43	38	9	44

13. Weights of 162 students (in kg) are given below. Identify the class interval table for the given frequency polygon.



(i)

Weight (in kg)	54 - 61	62 - 69	70 - 77	78 - 85	86 - 93
No. of students	33	12	37	36	44

(ii)

Weight (in kg)	54 - 61	62 - 69	70 - 77	78 - 85	86 - 93
No. of students	33	37	12	36	44

(iii)

Weight (in kg)	54 - 61	62 - 69	70 - 77	78 - 85	86 - 93
No. of students	33	37	16	36	44

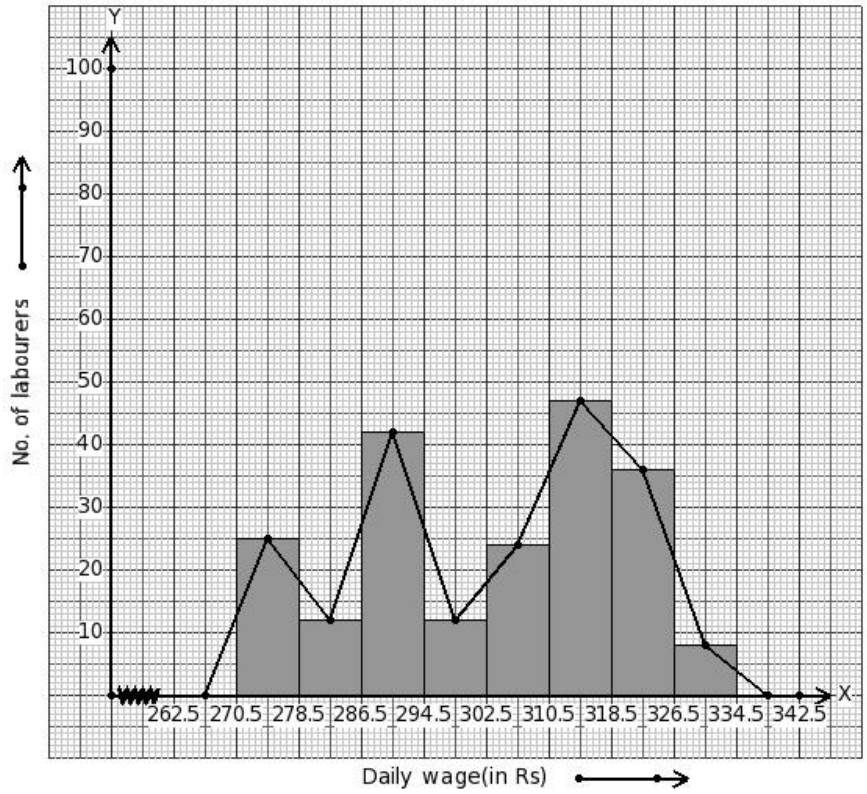
(iv)

Weight (in kg)	54 - 61	62 - 69	70 - 77	78 - 85	86 - 93
No. of students	33	42	12	36	44

(v)

Weight (in kg)	54 - 61	62 - 69	70 - 77	78 - 85	86 - 93
No. of students	33	44	12	36	37

14. Daily wages of 206 labourers (in ₹) are given below.
Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

Daily wage(in Rs)	271 - 278	279 - 286	287 - 294	295 - 302	303 - 310	311 - 318	319 - 326	327 - 334
No. of labourers	25	12	42	12	29	47	36	8

(ii)

Daily wage(in Rs)	271 - 278	279 - 286	287 - 294	295 - 302	303 - 310	311 - 318	319 - 326	327 - 334
No. of labourers	25	12	42	12	24	47	36	8

(iii)

Daily wage(in Rs)	271 - 278	279 - 286	287 - 294	295 - 302	303 - 310	311 - 318	319 - 326	327 - 334
No. of labourers	25	8	42	12	24	47	36	12

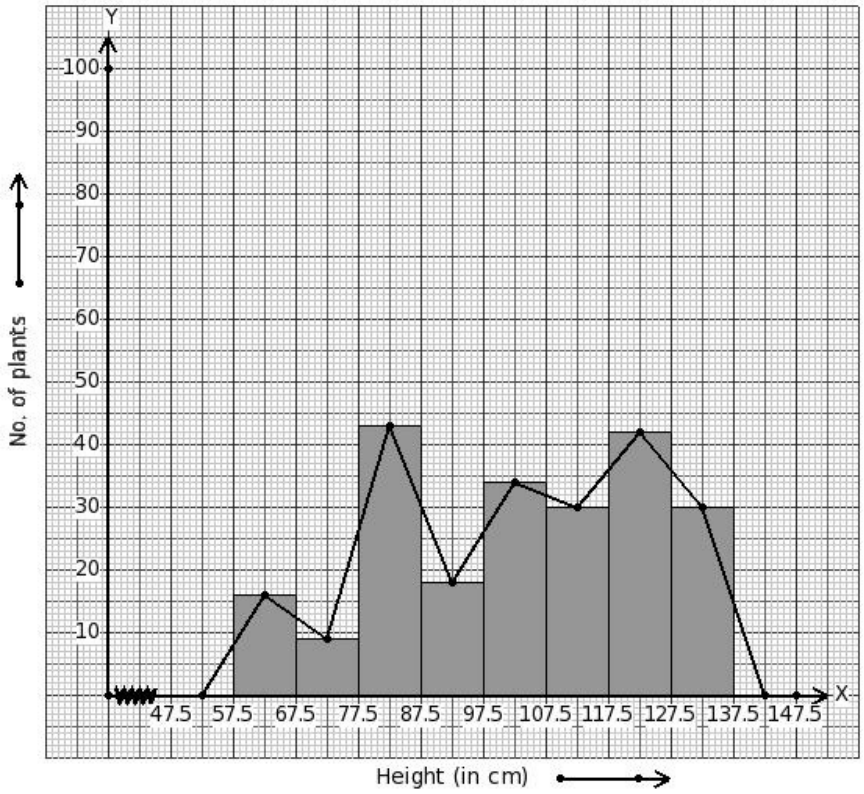
(iv)

Daily wage(in Rs)	271 - 278	279 - 286	287 - 294	295 - 302	303 - 310	311 - 318	319 - 326	327 - 334
No. of labourers	25	12	12	42	24	47	36	8

(v)

Daily wage(in Rs)	271 - 278	279 - 286	287 - 294	295 - 302	303 - 310	311 - 318	319 - 326	327 - 334
No. of labourers	25	12	47	12	24	47	36	8

15. Heights of 222 plants (in cm) are given below.
Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

Height (in cm)	58 - 67	68 - 77	78 - 87	88 - 97	98 - 107	108 - 117	118 - 127	128 - 137
No. of plants	16	30	43	18	34	30	42	9

(ii)

Height (in cm)	58 - 67	68 - 77	78 - 87	88 - 97	98 - 107	108 - 117	118 - 127	128 - 137
No. of plants	16	9	41	18	34	30	42	30

(iii)

Height (in cm)	58 - 67	68 - 77	78 - 87	88 - 97	98 - 107	108 - 117	118 - 127	128 - 137
No. of plants	16	9	18	43	34	30	42	30

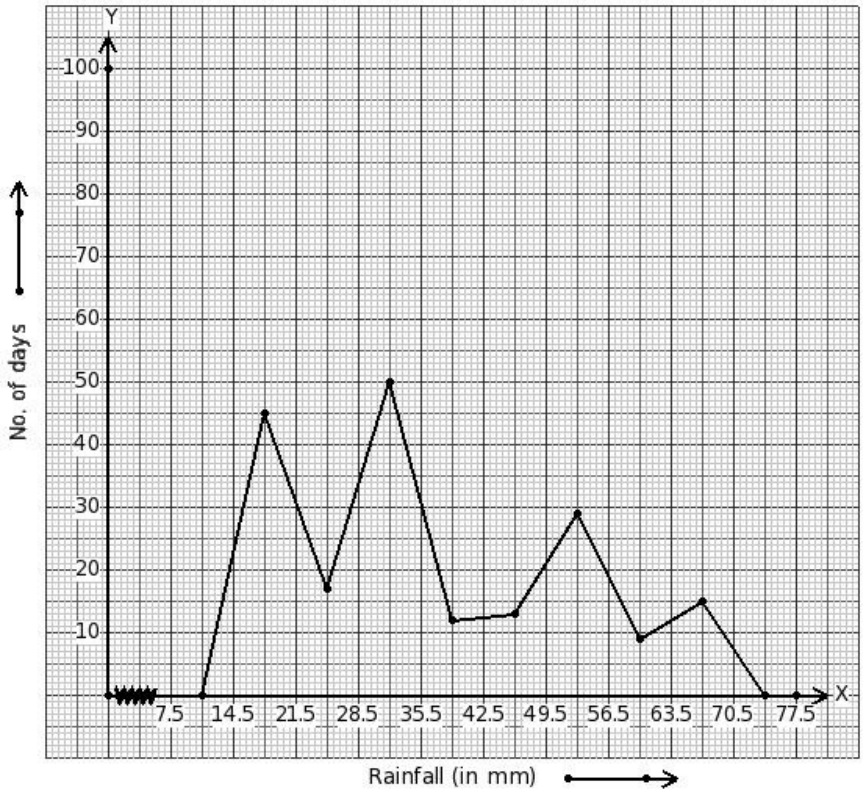
(iv)

Height (in cm)	58 - 67	68 - 77	78 - 87	88 - 97	98 - 107	108 - 117	118 - 127	128 - 137
No. of plants	16	9	43	18	36	30	42	30

(v)

Height (in cm)	58 - 67	68 - 77	78 - 87	88 - 97	98 - 107	108 - 117	118 - 127	128 - 137
No. of plants	16	9	43	18	34	30	42	30

16. Rainfall of 190 days (in mm) are given below. Identify the class interval table for the given frequency polygon.



(i)

Rainfall (in mm)	15 - 21	22 - 28	29 - 35	36 - 42	43 - 49	50 - 56	57 - 63	64 - 70
No. of days	45	17	50	12	13	29	9	15

(ii)

Rainfall (in mm)	15 - 21	22 - 28	29 - 35	36 - 42	43 - 49	50 - 56	57 - 63	64 - 70
No. of days	45	15	50	12	13	29	9	17

(iii)

Rainfall (in mm)	15 - 21	22 - 28	29 - 35	36 - 42	43 - 49	50 - 56	57 - 63	64 - 70
No. of days	45	17	50	12	16	29	9	15

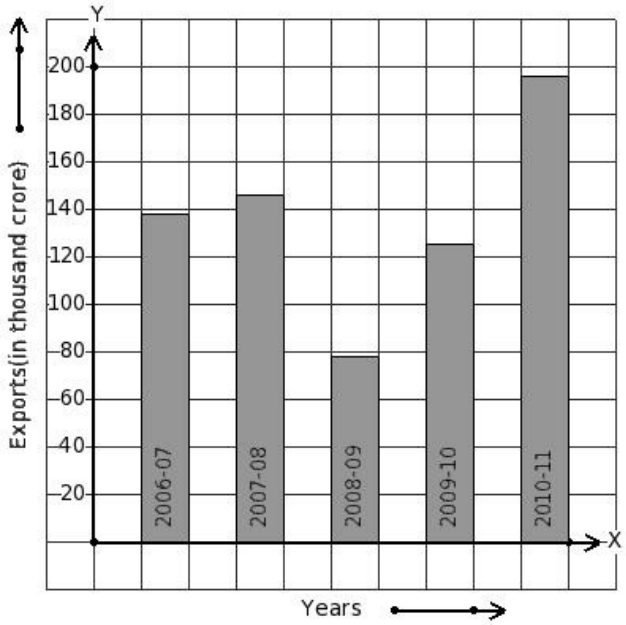
(iv)

Rainfall (in mm)	15 - 21	22 - 28	29 - 35	36 - 42	43 - 49	50 - 56	57 - 63	64 - 70
No. of days	45	17	53	12	13	29	9	15

(v)

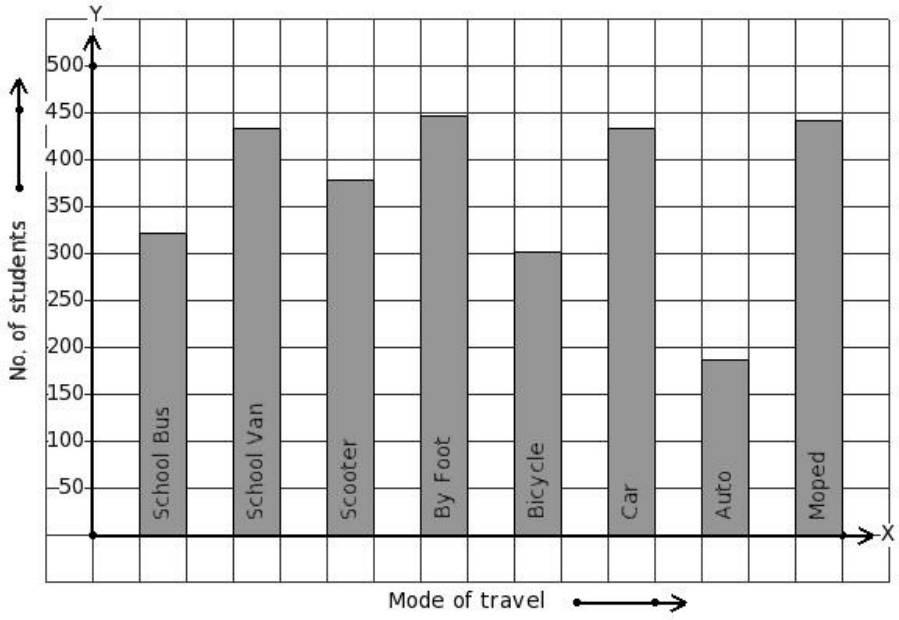
Rainfall (in mm)	15 - 21	22 - 28	29 - 35	36 - 42	43 - 49	50 - 56	57 - 63	64 - 70
No. of days	45	17	12	50	13	29	9	15

17. The following bar graph shows the export earnings of a country (in thousand crore) during five years. Find the year that has minimum export earnings.



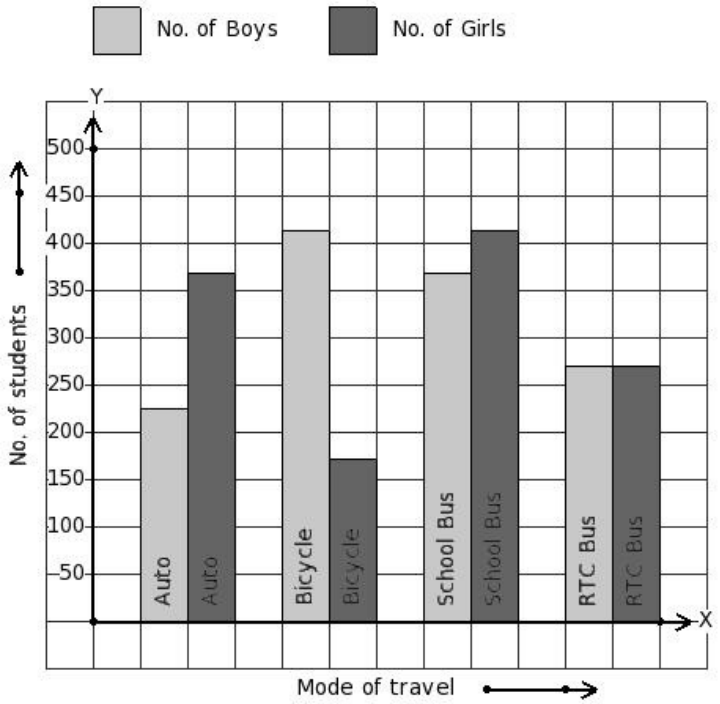
(i) 2009-10 (ii) 2008-09 (iii) 2007-08 (iv) 2006-07 (v) 2010-11

18. Students of a certain locality use different modes of travel to school as given below. Find the mode of travel that has minimum students.



(i) Scooter (ii) Car (iii) Auto (iv) Moped (v) Bicycle

19. 2502 students of a school use different modes of travel to school. Identify the table for the given bar diagram.



(i)

Mode of travel	Auto	Bicycle	School Bus	RTC Bus
No. of Boys	217	414	369	270
No. of Girls	369	171	414	270

(ii)

Mode of travel	Auto	Bicycle	School Bus	RTC Bus
No. of Boys	225	414	362	270
No. of Girls	369	171	407	270

(iii)

Mode of travel	Auto	Bicycle	School Bus	RTC Bus
No. of Boys	369	171	414	276
No. of Girls	225	414	369	277

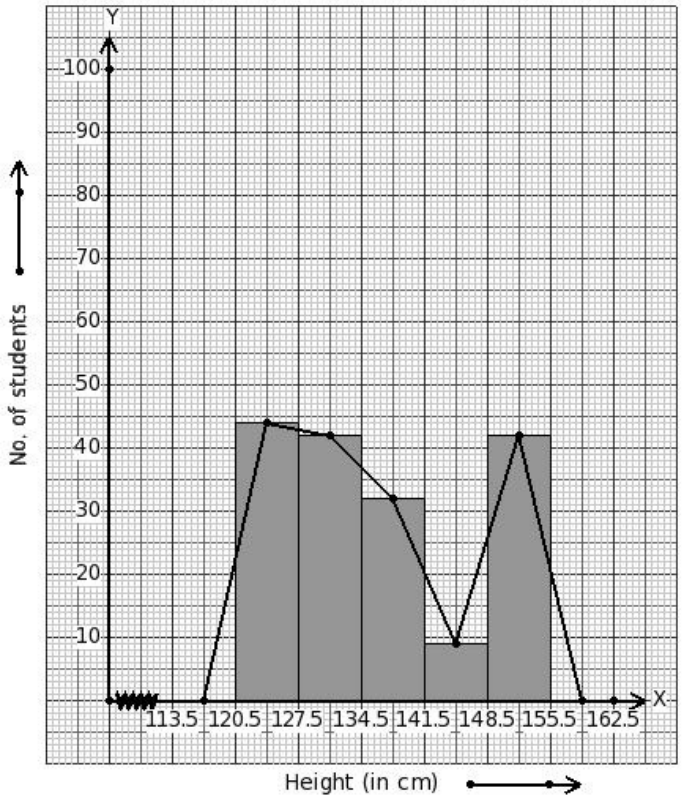
(iv)

Mode of travel	Auto	Bicycle	School Bus	RTC Bus
No. of Boys	225	414	369	270
No. of Girls	369	171	414	270

(v)

Mode of travel	Auto	Bicycle	School Bus	RTC Bus
No. of Boys	225	414	369	270
No. of Girls	369	177	414	270

20. Heights of 169 students (in cm) are given below.
Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

Height (in cm)	121 - 127	128 - 134	135 - 141	142 - 148	149 - 155
No. of students	44	32	42	9	42

(ii)

Height (in cm)	121 - 127	128 - 134	135 - 141	142 - 148	149 - 155
No. of students	44	42	36	9	42

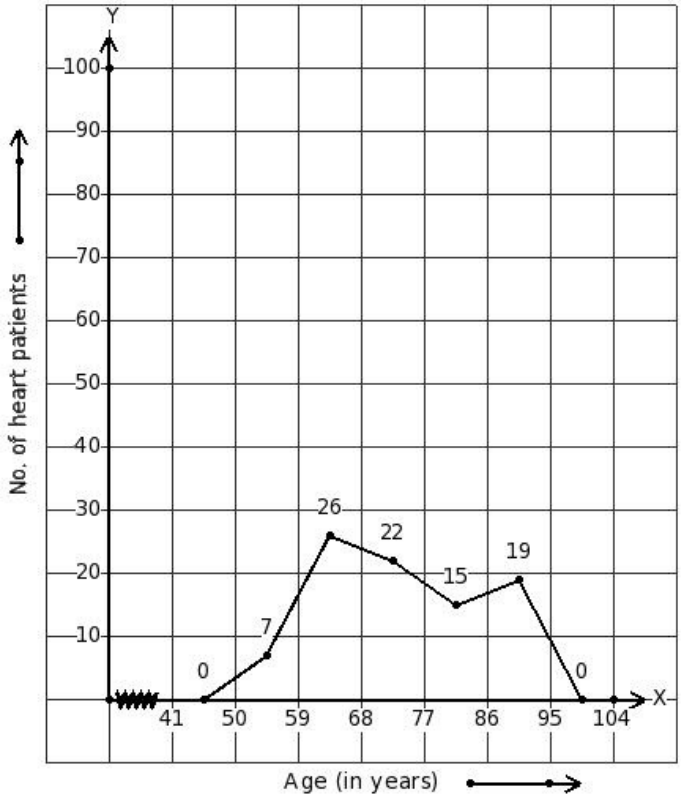
(iii)

Height (in cm)	121 - 127	128 - 134	135 - 141	142 - 148	149 - 155
No. of students	44	40	32	9	42

(iv)

Height (in cm)	121 - 127	128 - 134	135 - 141	142 - 148	149 - 155
No. of students	44	42	32	9	42

21. Given frequency polygon showing the number of heart patients at various age groups, identify the class interval table.



(i)

Age (in years)	50 - 59	59 - 68	68 - 77	77 - 86	86 - 95
No. of heart patients	7	22	26	15	19

(ii)

Age (in years)	50 - 59	59 - 68	68 - 77	77 - 86	86 - 95
No. of heart patients	7	19	22	15	26

(iii)

Age (in years)	50 - 59	59 - 68	68 - 77	77 - 86	86 - 95
No. of heart patients	7	29	22	15	19

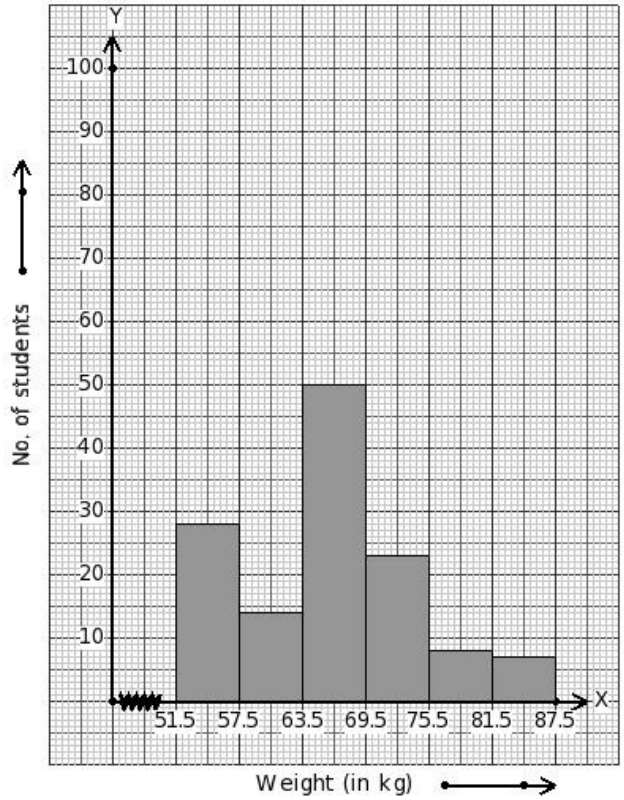
(iv)

Age (in years)	50 - 59	59 - 68	68 - 77	77 - 86	86 - 95
No. of heart patients	7	26	22	15	19

(v)

Age (in years)	50 - 59	59 - 68	68 - 77	77 - 86	86 - 95
No. of heart patients	7	26	26	15	19

22. Weights of 130 students (in kg) are given below. Identify the class mark table for the given histogram.



(i)

Weight (in kg)	54.5	60.5	66.5	72.5	78.5	84.5
No. of students	28	14	53	23	8	7

(ii)

Weight (in kg)	54.5	60.5	66.5	72.5	78.5	84.5
No. of students	28	14	50	20	8	7

(iii)

Weight (in kg)	54.5	60.5	66.5	72.5	78.5	84.5
No. of students	28	7	50	23	8	14

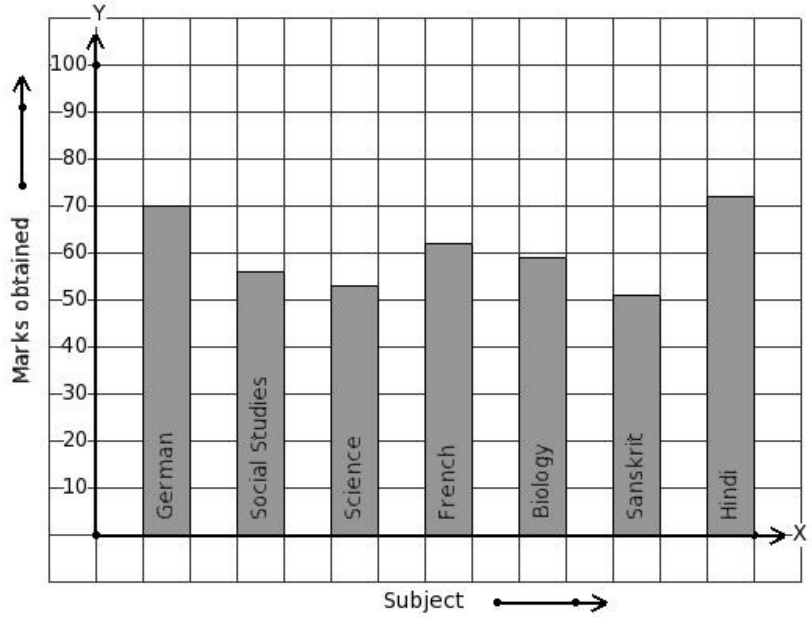
(iv)

Weight (in kg)	54.5	60.5	66.5	72.5	78.5	84.5
No. of students	28	14	50	23	8	7

(v)

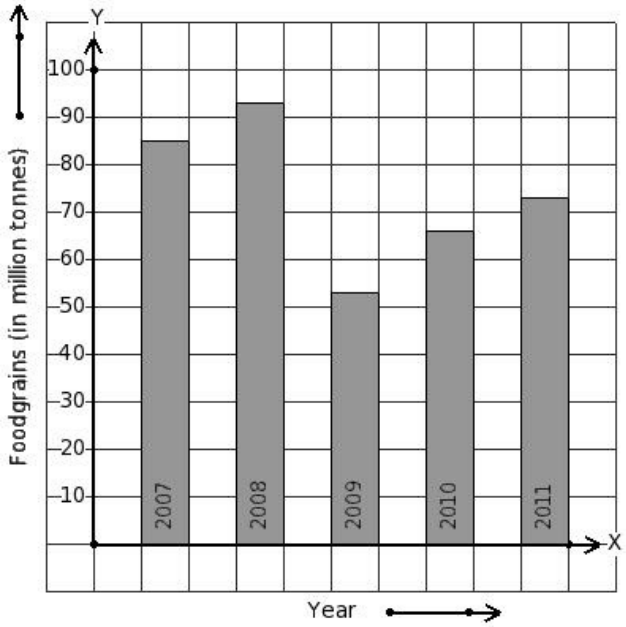
Weight (in kg)	54.5	60.5	66.5	72.5	78.5	84.5
No. of students	28	50	14	23	8	7

23. The marks obtained by Ashish in his annual exam are shown below. Find the subject that has maximum score.



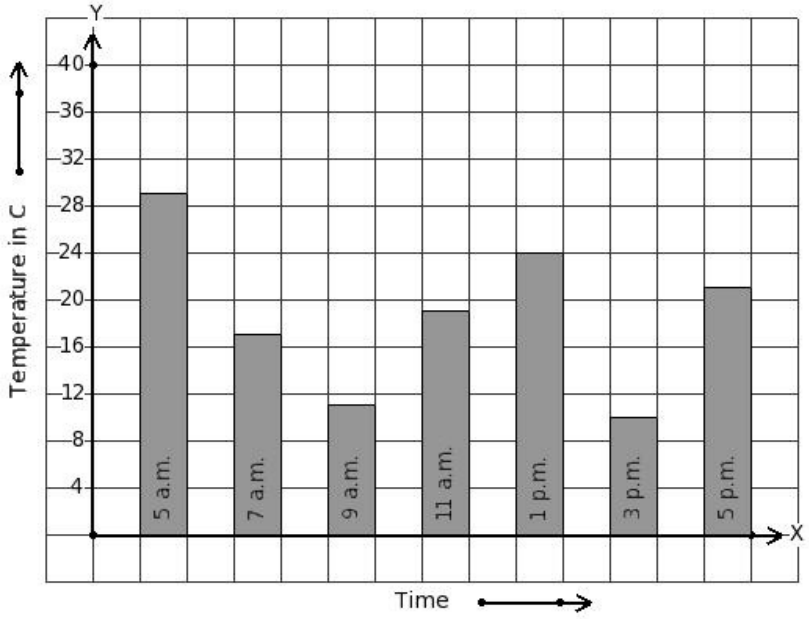
(i) German (ii) Sanskrit (iii) Social Studies (iv) French (v) Hindi

24. Read the column-graph given below. Find the year that has 73 million tonnes food grains production.



(i) 2010 (ii) 2009 (iii) 2007 (iv) 2011 (v) 2008

25. On a certain day, the temperature in a city was recorded as shown below. Find the time that has minimum temperature.



(i) 9 a.m. (ii) 11 a.m. (iii) 3 p.m. (iv) 5 p.m. (v) 7 a.m.

Assignment Key

1) (v)	2) (i)	3) (i)	4) (ii)	5) (ii)	6) (ii)
7) (iii)	8) (iii)	9) (iv)	10) (i)	11) (iv)	12) (iii)
13) (ii)	14) (ii)	15) (v)	16) (i)	17) (ii)	18) (iii)
19) (iv)	20) (iv)	21) (iv)	22) (iv)	23) (v)	24) (iv)
25) (iii)					