



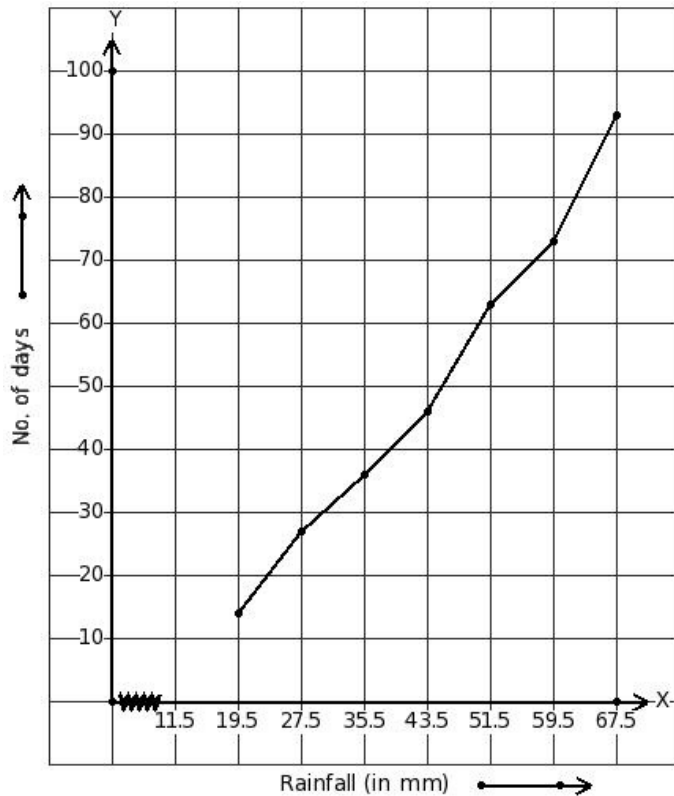
Temperatures of 10 days are given below. Find the median.

1.

Temperature (in degree C)	25	26	28	30	31	35
No. of days	4	1	1	1	1	2

- (i) 27°C (ii) 25°C (iii) 29°C (iv) 28°C (v) 26°C

2. Rainfall of 93 days (in mm) are given below. Identify the frequency distribution table for the given 'less than' ogive.



(i)

Rainfall (in mm)	12 - 19	20 - 27	28 - 35	36 - 43	44 - 51	52 - 59	60 - 67
No. of days	14	20	9	10	17	10	13

(ii)

Rainfall (in mm)	12 - 19	20 - 27	28 - 35	36 - 43	44 - 51	52 - 59	60 - 67
No. of days	14	13	9	10	17	10	20

(iii)

Rainfall (in mm)	12 - 19	20 - 27	28 - 35	36 - 43	44 - 51	52 - 59	60 - 67
No. of days	14	13	9	14	17	10	20

(iv)

Rainfall (in mm)	12 - 19	20 - 27	28 - 35	36 - 43	44 - 51	52 - 59	60 - 67
No. of days	14	13	12	10	17	10	20

(v)

Rainfall (in mm)	12 - 19	20 - 27	28 - 35	36 - 43	44 - 51	52 - 59	60 - 67
No. of days	14	9	13	10	17	10	20

The daily wage of 53 workers of a factory is given below. Calculate the mean wage correct to 2 decimal places.

3.	Daily income (in Rs)	less than 120	less than 140	less than 160	less than 180	less than 200	less than 220	less than 240
	No. of workers	6	13	23	30	40	47	53

- (i) ₹186.00 (ii) ₹143.00 (iii) ₹152.00 (iv) ₹183.00 (v) ₹170.00

Construct a frequency distribution table from the following cumulative frequency distribution

4.	Class-Interval	Cumulative Frequency
	16 - 25	11
	25 - 34	21
	34 - 43	33
	43 - 52	41
	52 - 61	50
	61 - 70	55
	70 - 79	69

(i)	Class-Interval	16 - 25	25 - 34	34 - 43	43 - 52	52 - 61	61 - 70	70 - 79
	Frequency	11	10	9	8	9	5	14

(ii)	Class-Interval	16 - 25	25 - 34	34 - 43	43 - 52	52 - 61	61 - 70	70 - 79
	Frequency	11	12	10	8	9	5	14

(iii)	Class-Interval	16 - 25	25 - 34	34 - 43	43 - 52	52 - 61	61 - 70	70 - 79
	Frequency	11	10	12	8	9	5	14

(iv)	Class-Interval	16 - 25	25 - 34	34 - 43	43 - 52	52 - 61	61 - 70	70 - 79
	Frequency	11	14	12	8	9	5	10

(v)	Class-Interval	16 - 25	25 - 34	34 - 43	43 - 52	52 - 61	61 - 70	70 - 79
	Frequency	11	10	12	3	9	5	14

A frequency distribution table is given below. Find the mode .

5.	Class-Interval	11 - 19	20 - 28	29 - 37	38 - 46	47 - 55	56 - 64	65 - 73	74 - 82
	Frequency	9	46	46	9	32	17	3	47

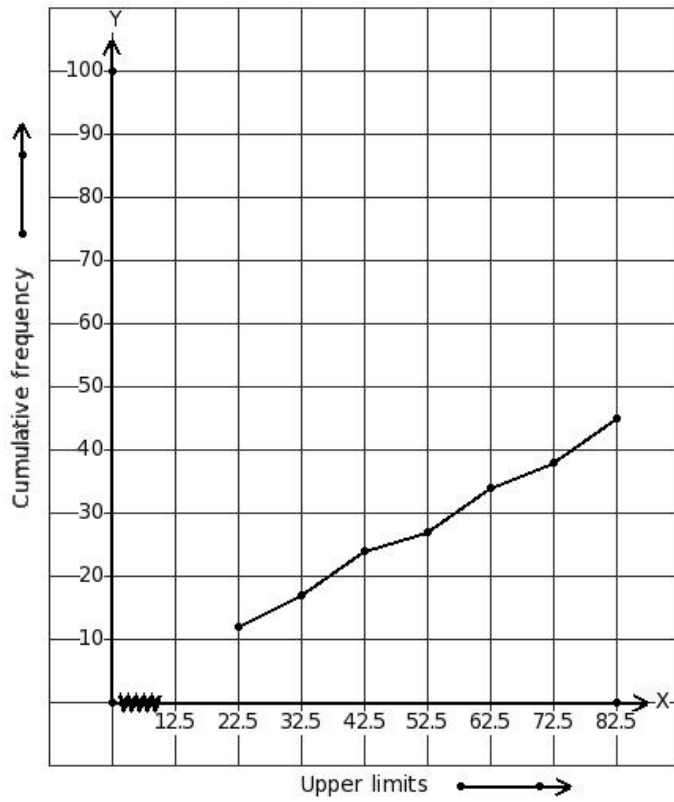
- (i) $\frac{545}{7}$ (ii) $\frac{14169}{182}$ (iii) $\frac{14351}{182}$ (iv) $\frac{14533}{182}$ (v) $\frac{14171}{182}$

The daily wages of 106 workers in a factory are given below. Find the mode wage.

6.	Wage (in rupees)	20 - 30	30 - 40	40 - 50	50 - 60	60 - 70	70 - 80
	No. of workers	18	23	28	7	20	10

- (i) ₹43.92 (ii) ₹42.92 (iii) ₹42.00 (iv) ₹41.92 (v) ₹42.08

7. Identify the frequency distribution table for the given 'less than' ogive.



(i)

Class-Interval	13 - 22	23 - 32	33 - 42	43 - 52	53 - 62	63 - 72	73 - 82
Frequency	11	20	5	4	18	20	19

(ii)

Class-Interval	13 - 22	23 - 32	33 - 42	43 - 52	53 - 62	63 - 72	73 - 82
Frequency	6	5	14	5	9	8	17

(iii)

Class-Interval	13 - 22	23 - 32	33 - 42	43 - 52	53 - 62	63 - 72	73 - 82
Frequency	11	12	6	13	20	11	15

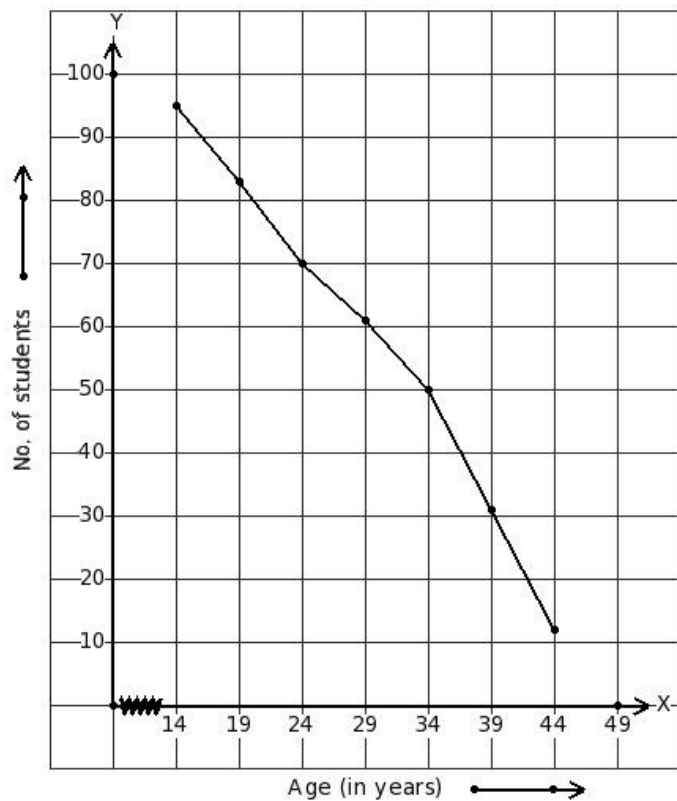
(iv)

Class-Interval	13 - 22	23 - 32	33 - 42	43 - 52	53 - 62	63 - 72	73 - 82
Frequency	12	5	7	3	7	4	7

(v)

Class-Interval	13 - 22	23 - 32	33 - 42	43 - 52	53 - 62	63 - 72	73 - 82
Frequency	2	3	3	12	11	10	9

8. Ages of 95 students (in years) are given below. Identify the frequency distribution table for the given 'more than' ogive.



(i)

Age (in years)	14 - 19	19 - 24	24 - 29	29 - 34	34 - 39	39 - 44	44 - 49
No. of students	12	13	14	11	19	19	12

(ii)

Age (in years)	14 - 19	19 - 24	24 - 29	29 - 34	34 - 39	39 - 44	44 - 49
No. of students	12	12	9	11	19	19	13

(iii)

Age (in years)	14 - 19	19 - 24	24 - 29	29 - 34	34 - 39	39 - 44	44 - 49
No. of students	12	13	9	8	19	19	12

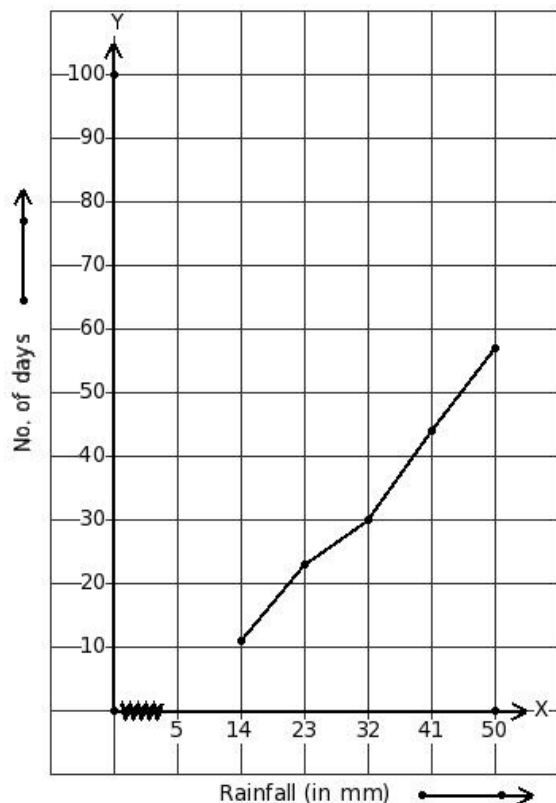
(iv)

Age (in years)	14 - 19	19 - 24	24 - 29	29 - 34	34 - 39	39 - 44	44 - 49
No. of students	12	13	9	11	19	19	12

(v)

Age (in years)	14 - 19	19 - 24	24 - 29	29 - 34	34 - 39	39 - 44	44 - 49
No. of students	12	9	13	11	19	19	12

9. Rainfall of 57 days (in mm) are given below. Identify the frequency distribution table for the given 'less than' ogive.



(i)

Rainfall (in mm)	5 - 14	14 - 23	23 - 32	32 - 41	41 - 50
No. of days	11	12	5	14	13

(ii)

Rainfall (in mm)	5 - 14	14 - 23	23 - 32	32 - 41	41 - 50
No. of days	11	7	12	14	13

(iii)

Rainfall (in mm)	5 - 14	14 - 23	23 - 32	32 - 41	41 - 50
No. of days	11	7	7	14	13

(iv)

Rainfall (in mm)	5 - 14	14 - 23	23 - 32	32 - 41	41 - 50
No. of days	11	13	7	14	12

(v)

Rainfall (in mm)	5 - 14	14 - 23	23 - 32	32 - 41	41 - 50
No. of days	11	12	7	14	13

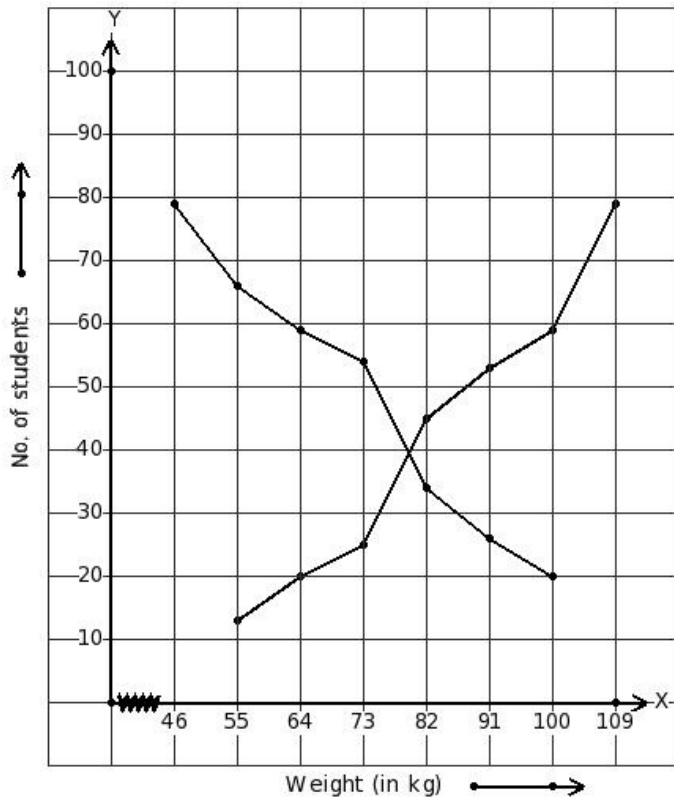
The following table shows the weights of 133 persons in a group. Find the mode weight.

10.

Weight (in kg)	10 - 19	20 - 29	30 - 39	40 - 49	50 - 59	60 - 69	70 - 79	80 - 89
No. of persons	18	20	17	9	20	15	16	18

- (i) 24kg (ii) $\frac{47}{2}$ kg (iii) $\frac{51}{2}$ kg (iv) $\frac{49}{2}$ kg

11. Weights of 79 students (in kg) are given below. Identify the frequency distribution table for the given 'ogive'.



- (i)

Weight (in kg)	46 - 55	55 - 64	64 - 73	73 - 82	82 - 91	91 - 100	100 - 109
No. of students	13	5	7	20	8	6	20
- (ii)

Weight (in kg)	46 - 55	55 - 64	64 - 73	73 - 82	82 - 91	91 - 100	100 - 109
No. of students	13	7	5	25	8	6	20
- (iii)

Weight (in kg)	46 - 55	55 - 64	64 - 73	73 - 82	82 - 91	91 - 100	100 - 109
No. of students	13	7	5	20	8	6	20
- (iv)

Weight (in kg)	46 - 55	55 - 64	64 - 73	73 - 82	82 - 91	91 - 100	100 - 109
No. of students	13	20	5	20	8	6	7
- (v)

Weight (in kg)	46 - 55	55 - 64	64 - 73	73 - 82	82 - 91	91 - 100	100 - 109
No. of students	13	7	8	20	8	6	20

A frequency distribution table is given below. Find the median .

12.

Class-Interval	1 - 9	9 - 17	17 - 25	25 - 33	33 - 41
Frequency	43	1	24	9	2

- (i) $\frac{360}{43}$ (ii) $\frac{359}{43}$ (iii) $\frac{361}{43}$ (iv) $\frac{402}{43}$ (v) $\frac{445}{43}$

Ages of 11 students are given below. Find the mode.

13.

Age (in years)	10	11	12	14	15
No. of students	2	4	2	2	1

- (i) 13years (ii) 10years (iii) 9years (iv) 12years (v) 11years

The heights of 43 pupils in a school are given below. Calculate the mean height correct to 2 decimal places.

14.

Height (in cm)	less than 136	less than 144	less than 152	less than 160	less than 168	less than 176
No. of pupils	5	11	17	25	33	43

- (i) 143.07 cm (ii) 173.07 cm (iii) 155.07 cm (iv) 130.07 cm (v) 179.07 cm

Scores of 11 students are given below. Find the mode.

15.	Score	75	81	82	85	87	90
	No. of students	1	4	2	1	2	1

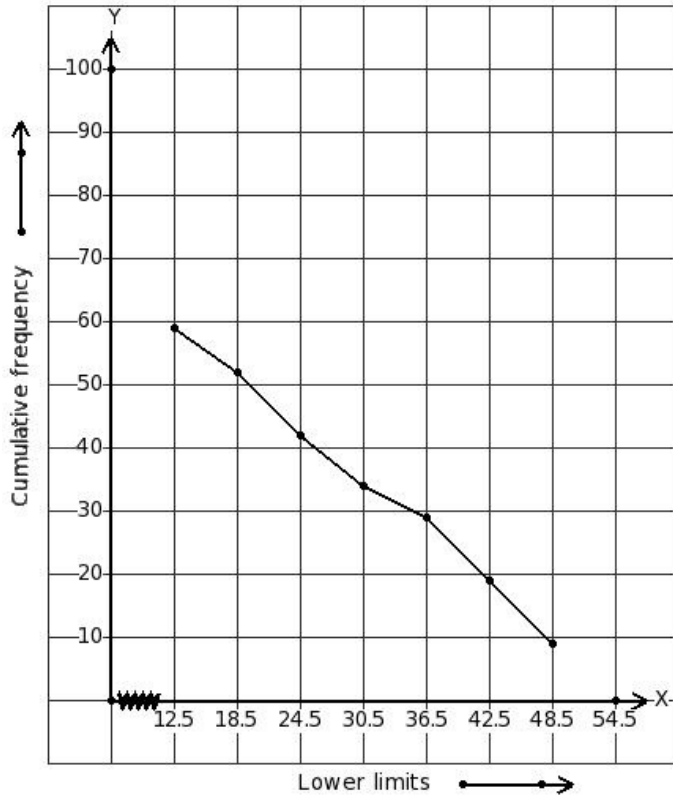
- (i) 79 (ii) 80 (iii) 83 (iv) 82 (v) 81

Heights of 20 plants are given below. Find the mean.

16.	Height (in cm)	50	62	72	82	84	97
	No. of plants	4	2	3	5	2	4

- (i) $\frac{151}{2}$ cm (ii) $\frac{763}{10}$ cm (iii) $\frac{377}{5}$ cm (iv) $\frac{773}{10}$ cm (v) $\frac{753}{10}$ cm

17. Identify the frequency distribution table for the given 'more than' ogive.



(i)

Class-Interval	13 - 18	19 - 24	25 - 30	31 - 36	37 - 42	43 - 48	49 - 54
Frequency	8	6	7	12	4	2	17

(ii)

Class-Interval	13 - 18	19 - 24	25 - 30	31 - 36	37 - 42	43 - 48	49 - 54
Frequency	10	2	1	11	19	2	13

(iii)

Class-Interval	13 - 18	19 - 24	25 - 30	31 - 36	37 - 42	43 - 48	49 - 54
Frequency	20	14	11	4	12	6	9

(iv)

Class-Interval	13 - 18	19 - 24	25 - 30	31 - 36	37 - 42	43 - 48	49 - 54
Frequency	9	10	5	14	18	5	13

(v)

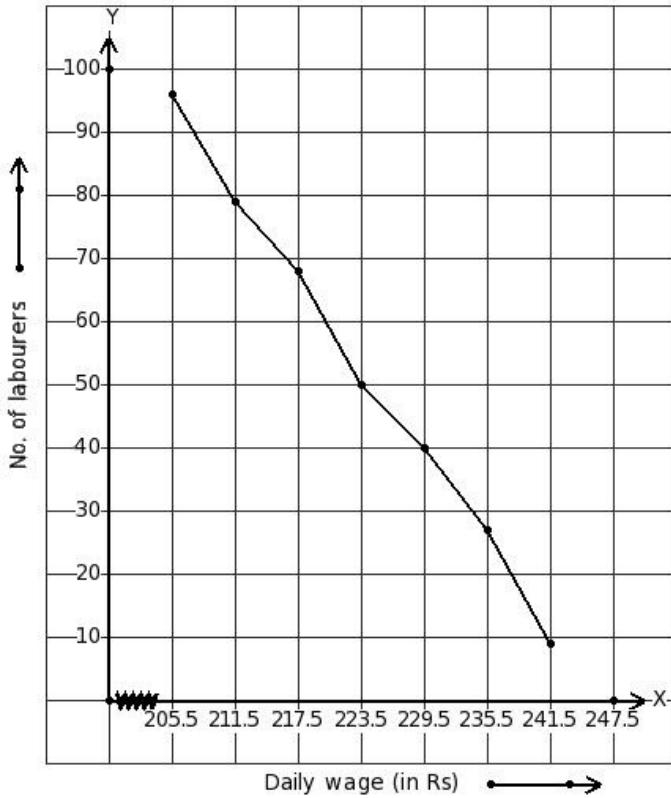
Class-Interval	13 - 18	19 - 24	25 - 30	31 - 36	37 - 42	43 - 48	49 - 54
Frequency	7	10	8	5	10	10	9

Ages of 10 students are given below. Find the median.

18.	Age (in years)	10	11	12	13	14
	No. of students	1	2	3	2	2

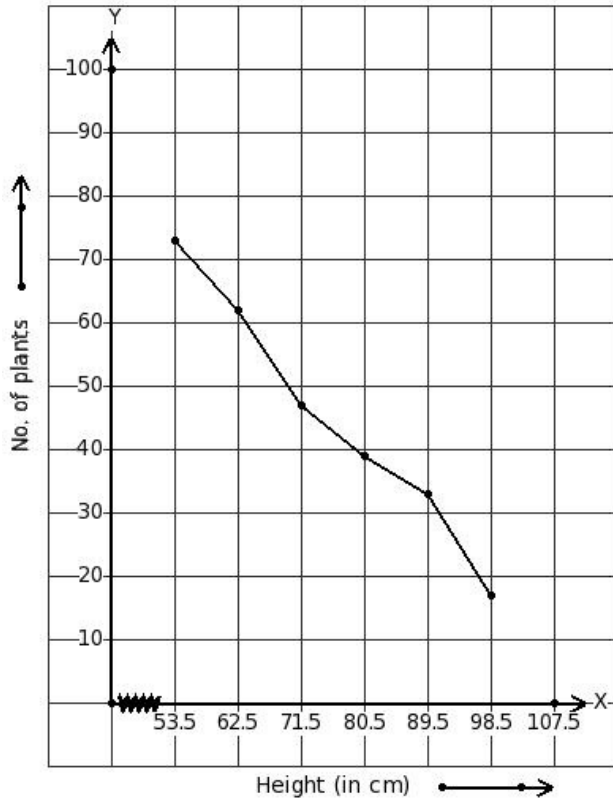
- (i) 12years (ii) 14years (iii) 10years (iv) 11years (v) 13years

19. Daily wages of 96 labourers (in ₹) are given below. Identify the frequency distribution table for the given 'more than' ogive.



- (i)
- | Daily wage (in Rs) | 206 - 211 | 212 - 217 | 218 - 223 | 224 - 229 | 230 - 235 | 236 - 241 | 242 - 247 |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| No. of labourers | 17 | 18 | 11 | 10 | 13 | 18 | 9 |
- (ii)
- | Daily wage (in Rs) | 206 - 211 | 212 - 217 | 218 - 223 | 224 - 229 | 230 - 235 | 236 - 241 | 242 - 247 |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| No. of labourers | 17 | 11 | 18 | 10 | 13 | 18 | 9 |
- (iii)
- | Daily wage (in Rs) | 206 - 211 | 212 - 217 | 218 - 223 | 224 - 229 | 230 - 235 | 236 - 241 | 242 - 247 |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| No. of labourers | 17 | 9 | 18 | 10 | 13 | 18 | 11 |
- (iv)
- | Daily wage (in Rs) | 206 - 211 | 212 - 217 | 218 - 223 | 224 - 229 | 230 - 235 | 236 - 241 | 242 - 247 |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| No. of labourers | 17 | 11 | 21 | 10 | 13 | 18 | 9 |
- (v)
- | Daily wage (in Rs) | 206 - 211 | 212 - 217 | 218 - 223 | 224 - 229 | 230 - 235 | 236 - 241 | 242 - 247 |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| No. of labourers | 17 | 11 | 18 | 14 | 13 | 18 | 9 |

20. Heights of 73 plants (in cm) are given below. Identify the frequency distribution table for the given 'more than' ogive.



- (i)

Height (in cm)	54 - 62	63 - 71	72 - 80	81 - 89	90 - 98	99 - 107
No. of plants	11	15	8	6	16	17
- (ii)

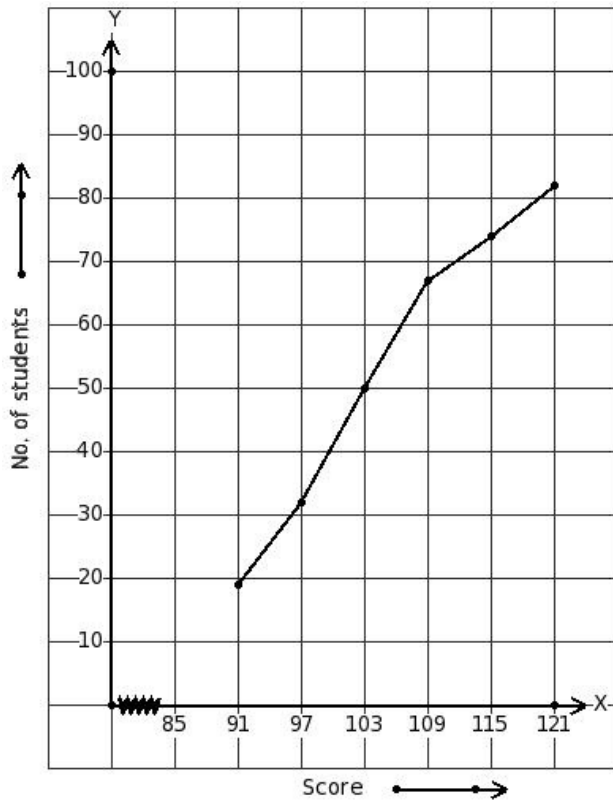
Height (in cm)	54 - 62	63 - 71	72 - 80	81 - 89	90 - 98	99 - 107
No. of plants	11	15	10	6	16	17
- (iii)

Height (in cm)	54 - 62	63 - 71	72 - 80	81 - 89	90 - 98	99 - 107
No. of plants	11	15	8	9	16	17
- (iv)

Height (in cm)	54 - 62	63 - 71	72 - 80	81 - 89	90 - 98	99 - 107
No. of plants	11	8	15	6	16	17
- (v)

Height (in cm)	54 - 62	63 - 71	72 - 80	81 - 89	90 - 98	99 - 107
No. of plants	11	17	8	6	16	15

21. Scores of 82 students are given below. Identify the frequency distribution table for the given 'less than' ogive.



(i)

Score	85 - 91	91 - 97	97 - 103	103 - 109	109 - 115	115 - 121
No. of students	19	8	18	17	7	13

(ii)

Score	85 - 91	91 - 97	97 - 103	103 - 109	109 - 115	115 - 121
No. of students	19	13	18	13	7	8

(iii)

Score	85 - 91	91 - 97	97 - 103	103 - 109	109 - 115	115 - 121
No. of students	19	13	22	17	7	8

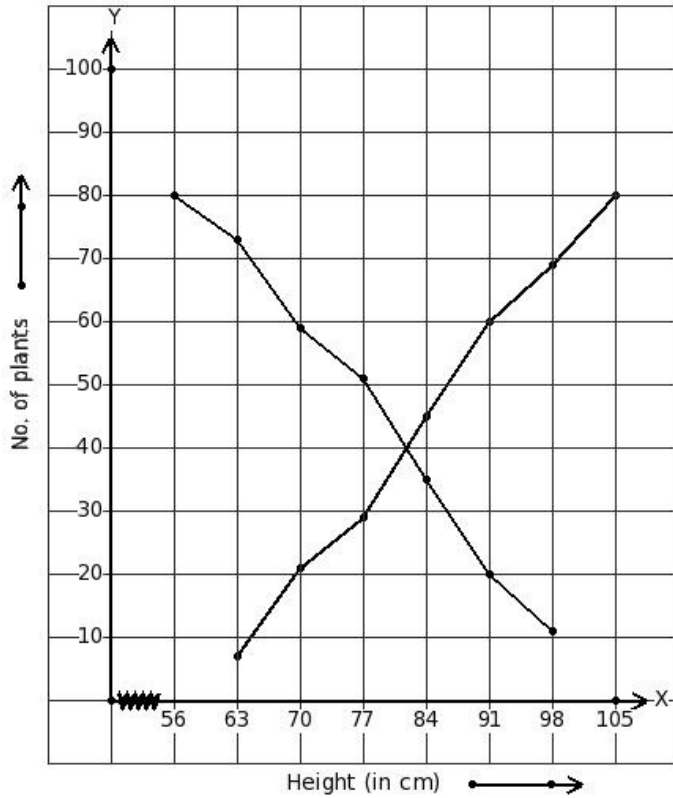
(iv)

Score	85 - 91	91 - 97	97 - 103	103 - 109	109 - 115	115 - 121
No. of students	19	18	13	17	7	8

(v)

Score	85 - 91	91 - 97	97 - 103	103 - 109	109 - 115	115 - 121
No. of students	19	13	18	17	7	8

22. Heights of 80 plants (in cm) are given below. Identify the frequency distribution table for the given 'median ogive'.



(i)

Height (in cm)	56 - 63	63 - 70	70 - 77	77 - 84	84 - 91	91 - 98	98 - 105
No. of plants	7	14	8	16	15	9	11

(ii)

Height (in cm)	56 - 63	63 - 70	70 - 77	77 - 84	84 - 91	91 - 98	98 - 105
No. of plants	7	14	8	20	15	9	11

(iii)

Height (in cm)	56 - 63	63 - 70	70 - 77	77 - 84	84 - 91	91 - 98	98 - 105
No. of plants	7	8	14	16	15	9	11

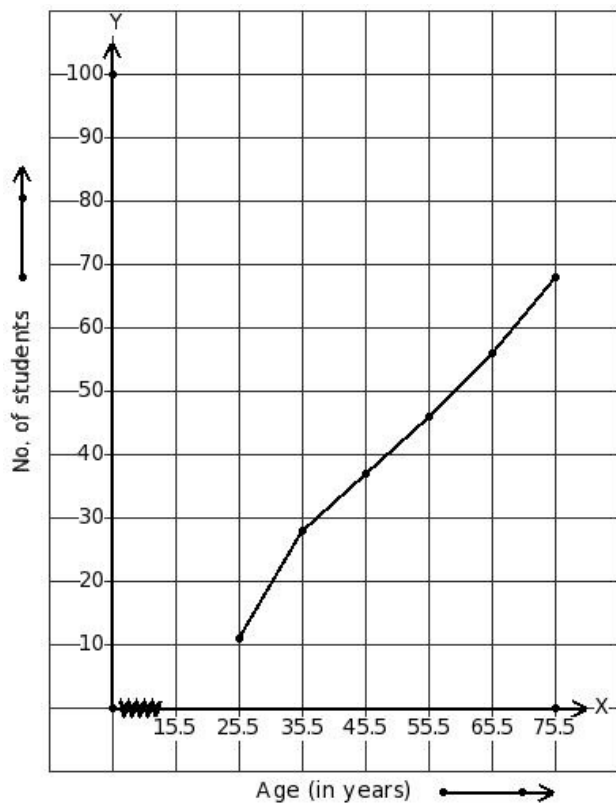
(iv)

Height (in cm)	56 - 63	63 - 70	70 - 77	77 - 84	84 - 91	91 - 98	98 - 105
No. of plants	7	14	3	16	15	9	11

(v)

Height (in cm)	56 - 63	63 - 70	70 - 77	77 - 84	84 - 91	91 - 98	98 - 105
No. of plants	7	11	8	16	15	9	14

23. Ages of 68 students (in years) are given below. Identify the frequency distribution table for the given 'less than' ogive.



(i)

Age (in years)	16 - 25	26 - 35	36 - 45	46 - 55	56 - 65	66 - 75
No. of students	11	9	17	9	10	12

(ii)

Age (in years)	16 - 25	26 - 35	36 - 45	46 - 55	56 - 65	66 - 75
No. of students	11	12	9	9	10	17

(iii)

Age (in years)	16 - 25	26 - 35	36 - 45	46 - 55	56 - 65	66 - 75
No. of students	11	17	9	6	10	12

(iv)

Age (in years)	16 - 25	26 - 35	36 - 45	46 - 55	56 - 65	66 - 75
No. of students	11	17	9	9	10	12

(v)

Age (in years)	16 - 25	26 - 35	36 - 45	46 - 55	56 - 65	66 - 75
No. of students	11	17	12	9	10	12

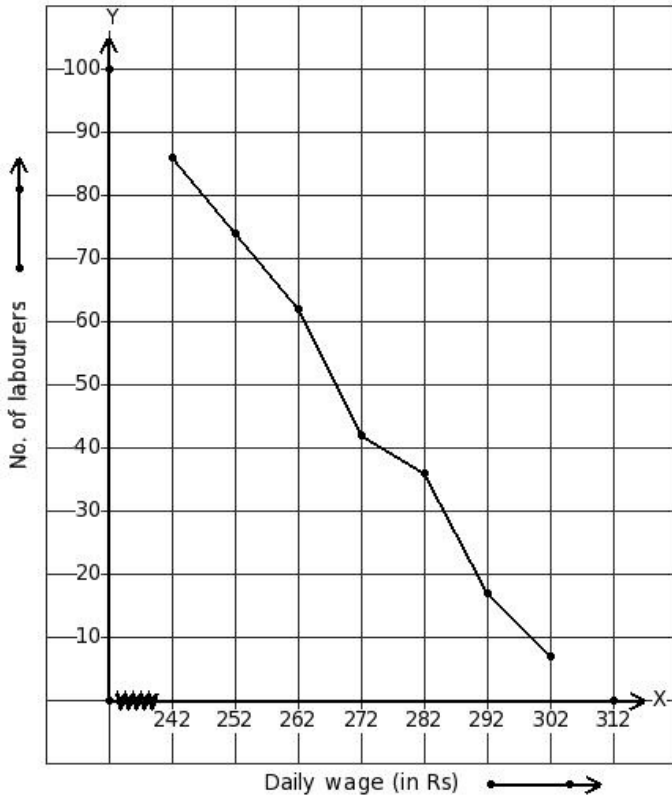
Rainfall of 16 days are given below. Find the mode.

24.

Rainfall (in mm)	5	6	7	9	10	11	12	14	15
No. of days	1	1	1	1	1	1	3	5	2

- (i) 14mm (ii) 13mm (iii) 16mm (iv) 12mm (v) 15mm

25. Daily wages of 86 labourers (in ₹) are given below. Identify the frequency distribution table for the given 'more than' ogive.



- (i)
- | Daily wage (in Rs) | 242 - 252 | 252 - 262 | 262 - 272 | 272 - 282 | 282 - 292 | 292 - 302 | 302 - 312 |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| No. of labourers | 12 | 12 | 22 | 6 | 19 | 10 | 7 |
- (ii)
- | Daily wage (in Rs) | 242 - 252 | 252 - 262 | 262 - 272 | 272 - 282 | 282 - 292 | 292 - 302 | 302 - 312 |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| No. of labourers | 12 | 7 | 20 | 6 | 19 | 10 | 12 |
- (iii)
- | Daily wage (in Rs) | 242 - 252 | 252 - 262 | 262 - 272 | 272 - 282 | 282 - 292 | 292 - 302 | 302 - 312 |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| No. of labourers | 12 | 12 | 20 | 10 | 19 | 10 | 7 |
- (iv)
- | Daily wage (in Rs) | 242 - 252 | 252 - 262 | 262 - 272 | 272 - 282 | 282 - 292 | 292 - 302 | 302 - 312 |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| No. of labourers | 12 | 12 | 20 | 6 | 19 | 10 | 7 |
- (v)
- | Daily wage (in Rs) | 242 - 252 | 252 - 262 | 262 - 272 | 272 - 282 | 282 - 292 | 292 - 302 | 302 - 312 |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| No. of labourers | 12 | 20 | 12 | 6 | 19 | 10 | 7 |

Assignment Key

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