

EduSahara™ Learning Center Assignment

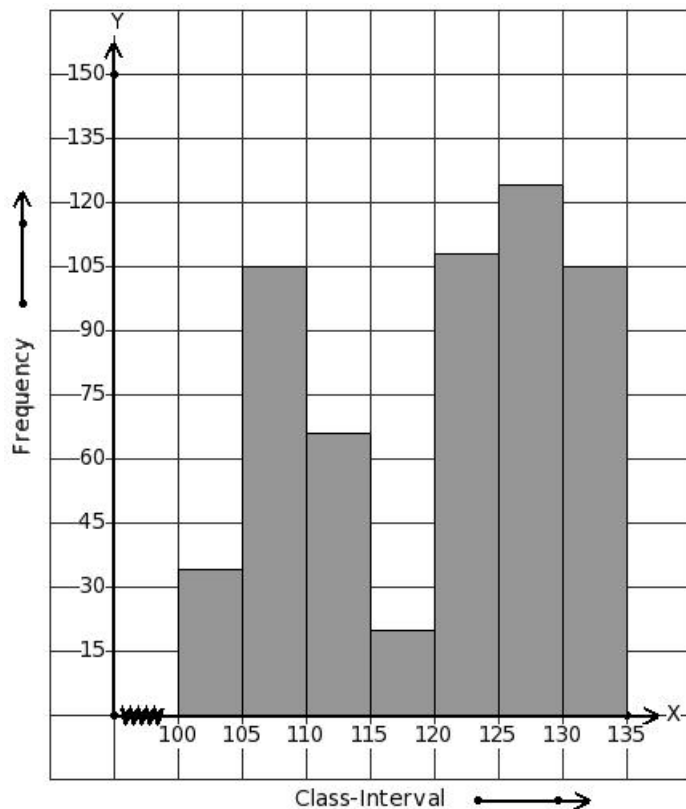
Grade : Class VIII, CBSE

Chapter : Data Handling

Name : Histogram

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



(i)

Class-Interval	100 - 105	105 - 110	110 - 115	115 - 120	120 - 125	125 - 130	130 - 135
Frequency	34	105	66	24	108	124	105

(ii)

Class-Interval	100 - 105	105 - 110	110 - 115	115 - 120	120 - 125	125 - 130	130 - 135
Frequency	34	66	105	20	108	124	105

(iii)

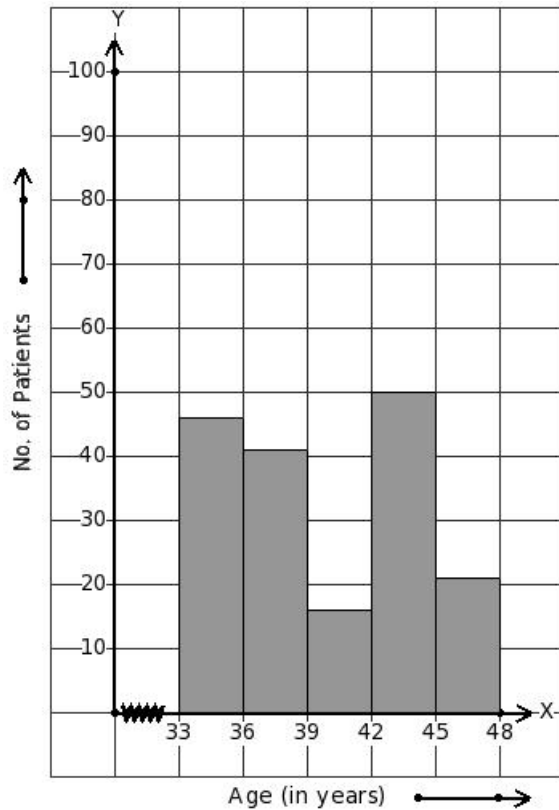
Class-Interval	100 - 105	105 - 110	110 - 115	115 - 120	120 - 125	125 - 130	130 - 135
Frequency	34	105	61	20	108	124	105

(iv)

Class-Interval	100 - 105	105 - 110	110 - 115	115 - 120	120 - 125	125 - 130	130 - 135
Frequency	34	105	66	20	108	124	105

2. In a study of heart patients, the following observations are obtained. Identify the class interval

table for the given histogram.



(i)

Age (in years)	33 - 36	36 - 39	39 - 42	42 - 45	45 - 48
No. of Patients	46	41	14	50	21

(ii)

Age (in years)	33 - 36	36 - 39	39 - 42	42 - 45	45 - 48
No. of Patients	46	36	16	50	21

(iii)

Age (in years)	33 - 36	36 - 39	39 - 42	42 - 45	45 - 48
No. of Patients	46	21	16	50	41

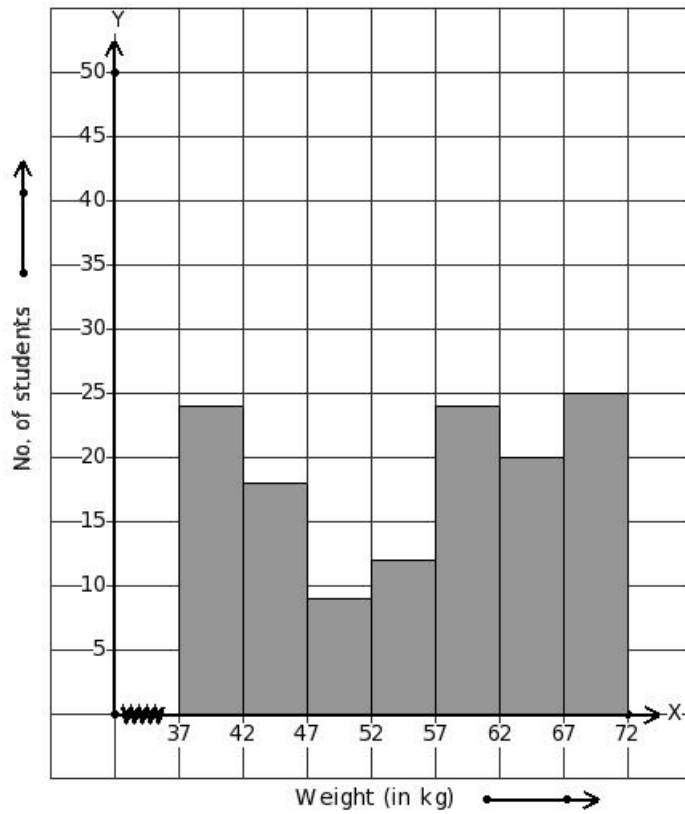
(iv)

Age (in years)	33 - 36	36 - 39	39 - 42	42 - 45	45 - 48
No. of Patients	46	41	16	50	21

(v)

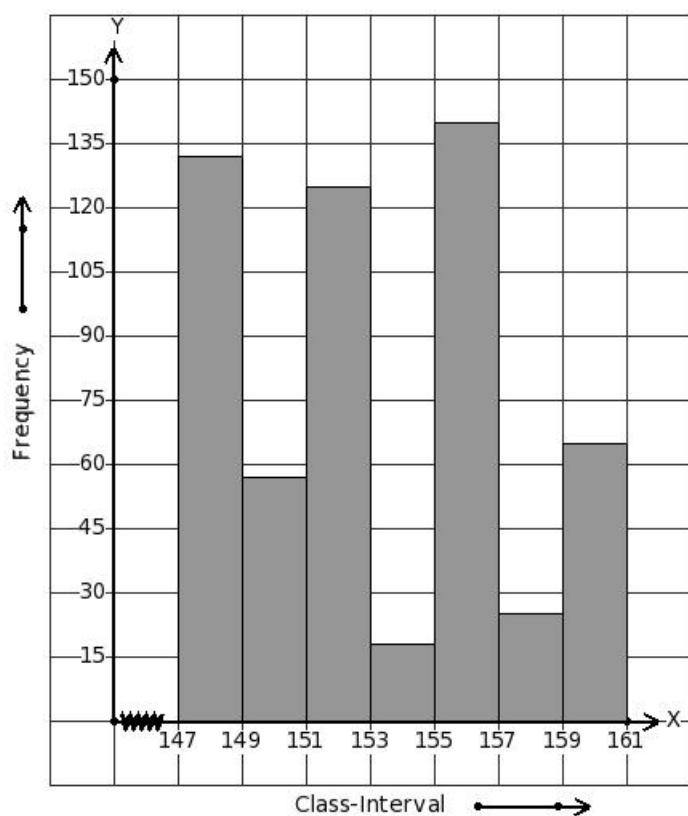
Age (in years)	33 - 36	36 - 39	39 - 42	42 - 45	45 - 48
No. of Patients	46	16	41	50	21

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



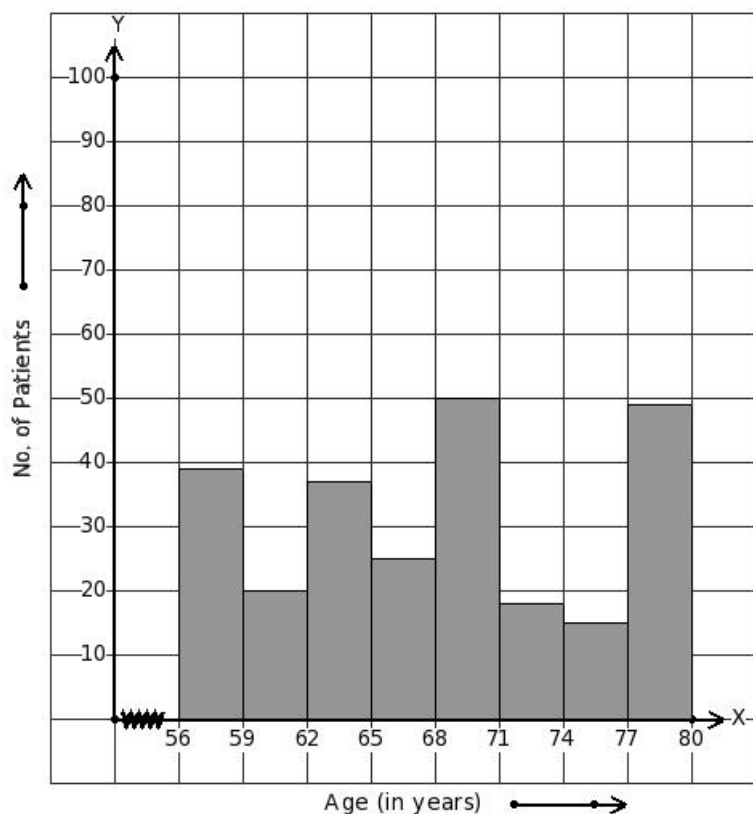
- (i)
- | | | | | | | | |
|-----------------|---------|---------|---------|---------|---------|---------|---------|
| Weight (in kg) | 37 - 42 | 42 - 47 | 47 - 52 | 52 - 57 | 57 - 62 | 62 - 67 | 67 - 72 |
| No. of students | 24 | 18 | 6 | 12 | 24 | 20 | 25 |
- (ii)
- | | | | | | | | |
|-----------------|---------|---------|---------|---------|---------|---------|---------|
| Weight (in kg) | 37 - 42 | 42 - 47 | 47 - 52 | 52 - 57 | 57 - 62 | 62 - 67 | 67 - 72 |
| No. of students | 24 | 18 | 9 | 16 | 24 | 20 | 25 |
- (iii)
- | | | | | | | | |
|-----------------|---------|---------|---------|---------|---------|---------|---------|
| Weight (in kg) | 37 - 42 | 42 - 47 | 47 - 52 | 52 - 57 | 57 - 62 | 62 - 67 | 67 - 72 |
| No. of students | 24 | 25 | 9 | 12 | 24 | 20 | 18 |
- (iv)
- | | | | | | | | |
|-----------------|---------|---------|---------|---------|---------|---------|---------|
| Weight (in kg) | 37 - 42 | 42 - 47 | 47 - 52 | 52 - 57 | 57 - 62 | 62 - 67 | 67 - 72 |
| No. of students | 24 | 9 | 18 | 12 | 24 | 20 | 25 |
- (v)
- | | | | | | | | |
|-----------------|---------|---------|---------|---------|---------|---------|---------|
| Weight (in kg) | 37 - 42 | 42 - 47 | 47 - 52 | 52 - 57 | 57 - 62 | 62 - 67 | 67 - 72 |
| No. of students | 24 | 18 | 9 | 12 | 24 | 20 | 25 |

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



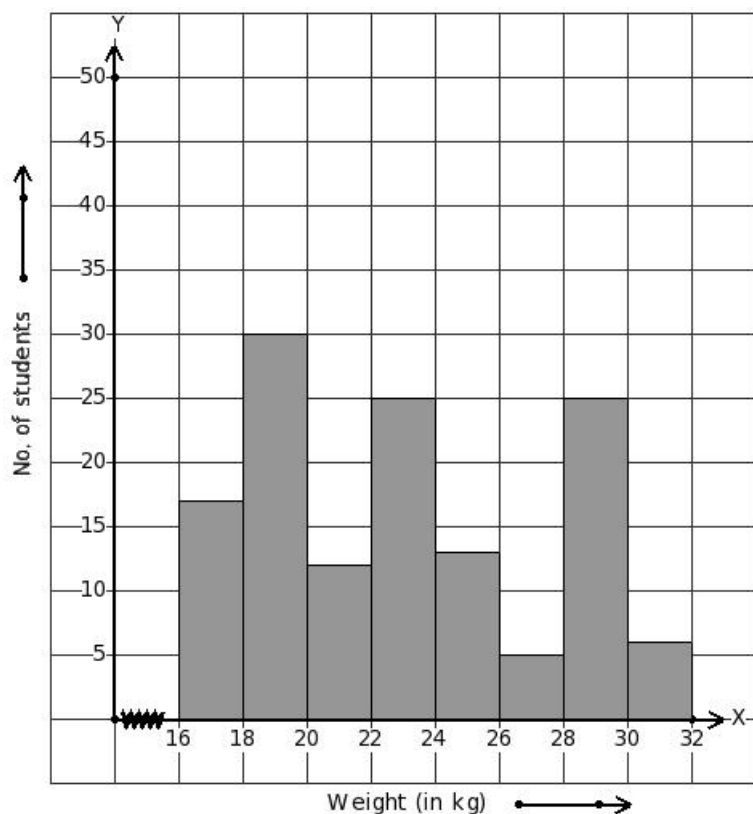
(i)	Class-Interval	147 - 149	149 - 151	151 - 153	153 - 155	155 - 157	157 - 159	159 - 161
	Frequency	132	125	57	18	140	25	65
(ii)	Class-Interval	147 - 149	149 - 151	151 - 153	153 - 155	155 - 157	157 - 159	159 - 161
	Frequency	132	65	125	18	140	25	57
(iii)	Class-Interval	147 - 149	149 - 151	151 - 153	153 - 155	155 - 157	157 - 159	159 - 161
	Frequency	132	57	125	15	140	25	65
(iv)	Class-Interval	147 - 149	149 - 151	151 - 153	153 - 155	155 - 157	157 - 159	159 - 161
	Frequency	132	57	129	18	140	25	65
(v)	Class-Interval	147 - 149	149 - 151	151 - 153	153 - 155	155 - 157	157 - 159	159 - 161
	Frequency	132	57	125	18	140	25	65

5. In a study of heart patients, the following observations are obtained. Identify the class interval table for the given histogram.



- (i)
- | Age (in years) | 56 - 59 | 59 - 62 | 62 - 65 | 65 - 68 | 68 - 71 | 71 - 74 | 74 - 77 | 77 - 80 |
|-----------------|---------|---------|---------|---------|---------|---------|---------|---------|
| No. of Patients | 39 | 20 | 37 | 25 | 50 | 18 | 15 | 49 |
- (ii)
- | Age (in years) | 56 - 59 | 59 - 62 | 62 - 65 | 65 - 68 | 68 - 71 | 71 - 74 | 74 - 77 | 77 - 80 |
|-----------------|---------|---------|---------|---------|---------|---------|---------|---------|
| No. of Patients | 39 | 20 | 35 | 25 | 50 | 18 | 15 | 49 |
- (iii)
- | Age (in years) | 56 - 59 | 59 - 62 | 62 - 65 | 65 - 68 | 68 - 71 | 71 - 74 | 74 - 77 | 77 - 80 |
|-----------------|---------|---------|---------|---------|---------|---------|---------|---------|
| No. of Patients | 39 | 20 | 25 | 37 | 50 | 18 | 15 | 49 |
- (iv)
- | Age (in years) | 56 - 59 | 59 - 62 | 62 - 65 | 65 - 68 | 68 - 71 | 71 - 74 | 74 - 77 | 77 - 80 |
|-----------------|---------|---------|---------|---------|---------|---------|---------|---------|
| No. of Patients | 39 | 20 | 37 | 25 | 46 | 18 | 15 | 49 |
- (v)
- | Age (in years) | 56 - 59 | 59 - 62 | 62 - 65 | 65 - 68 | 68 - 71 | 71 - 74 | 74 - 77 | 77 - 80 |
|-----------------|---------|---------|---------|---------|---------|---------|---------|---------|
| No. of Patients | 39 | 49 | 37 | 25 | 50 | 18 | 15 | 20 |

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



(i)

Weight (in kg)	16 - 18	18 - 20	20 - 22	22 - 24	24 - 26	26 - 28	28 - 30	30 - 32
No. of students	17	6	12	25	13	5	25	30

(ii)

Weight (in kg)	16 - 18	18 - 20	20 - 22	22 - 24	24 - 26	26 - 28	28 - 30	30 - 32
No. of students	17	30	12	25	13	5	25	6

(iii)

Weight (in kg)	16 - 18	18 - 20	20 - 22	22 - 24	24 - 26	26 - 28	28 - 30	30 - 32
No. of students	17	30	25	12	13	5	25	6

(iv)

Weight (in kg)	16 - 18	18 - 20	20 - 22	22 - 24	24 - 26	26 - 28	28 - 30	30 - 32
No. of students	17	30	12	25	9	5	25	6

(v)

Weight (in kg)	16 - 18	18 - 20	20 - 22	22 - 24	24 - 26	26 - 28	28 - 30	30 - 32
No. of students	17	30	17	25	13	5	25	6

7. A histogram consists of

- (i) sectors (ii) triangles (iii) squares (iv) rectangles

8. The width of the rectangles in a histogram represents

- (i) number of classes (ii) mid values of the class
(iii) frequency of the class (iv) class interval

9. In a histogram

- (i) the lengths of all rectangles are equal
 - (ii) the width of all rectangles are equal
 - (iii) the lengths and widths of all rectangles are equal
 - (iv) the length and width of each rectangle are in proportion
-

Assignment Key

- 1) (iv)
- 2) (iv)
- 3) (v)
- 4) (v)
- 5) (i)
- 6) (ii)
- 7) (iv)
- 8) (iv)
- 9) (ii)