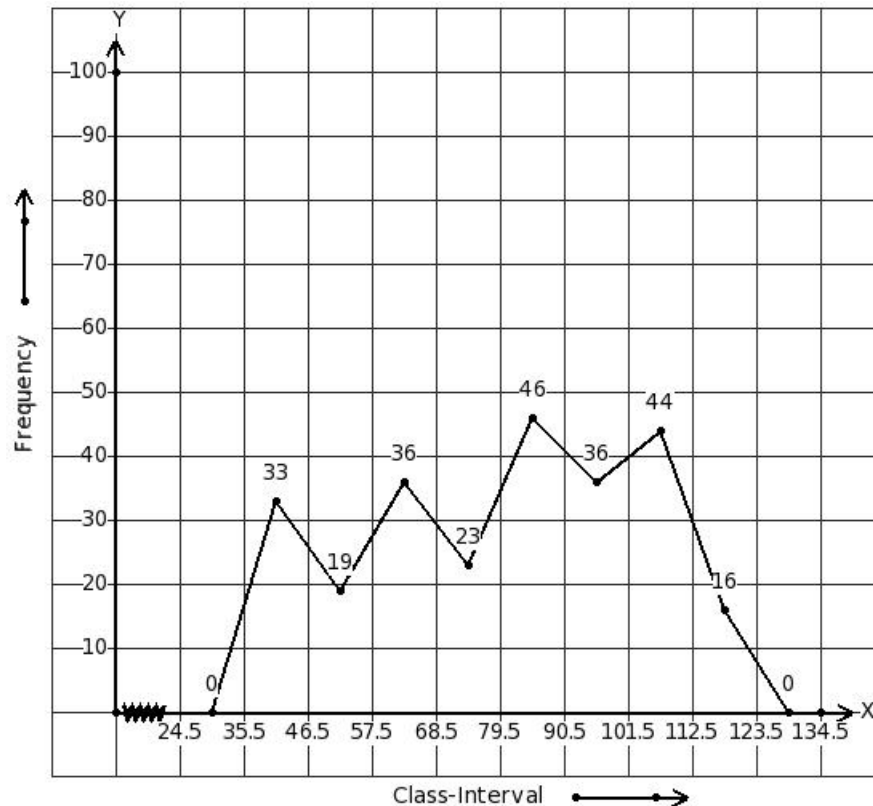


EduSahara™ Learning Center Assignment

Grade : Class VIII, SSC
 Chapter : Frequency Distribution Tables and Graphs
 Name : Frequency Polygon
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1. Identify a class interval table for given frequency polygon.

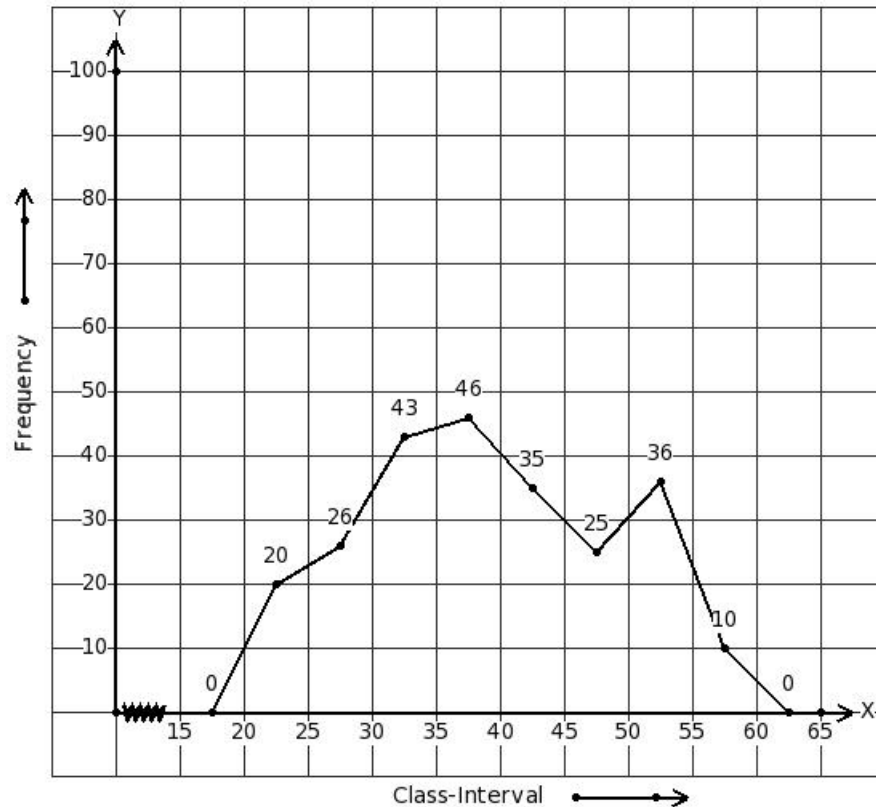


- (i)
- | Class-Interval | 36 - 46 | 47 - 57 | 58 - 68 | 69 - 79 | 80 - 90 | 91 - 101 | 102 - 112 | 113 - 123 |
|----------------|---------|---------|---------|---------|---------|----------|-----------|-----------|
| Frequency | 33 | 19 | 36 | 23 | 50 | 36 | 44 | 16 |
- (ii)
- | Class-Interval | 36 - 46 | 47 - 57 | 58 - 68 | 69 - 79 | 80 - 90 | 91 - 101 | 102 - 112 | 113 - 123 |
|----------------|---------|---------|---------|---------|---------|----------|-----------|-----------|
| Frequency | 33 | 19 | 41 | 23 | 46 | 36 | 44 | 16 |
- (iii)
- | Class-Interval | 36 - 46 | 47 - 57 | 58 - 68 | 69 - 79 | 80 - 90 | 91 - 101 | 102 - 112 | 113 - 123 |
|----------------|---------|---------|---------|---------|---------|----------|-----------|-----------|
| Frequency | 33 | 19 | 23 | 36 | 46 | 36 | 44 | 16 |
- (iv)
- | Class-Interval | 36 - 46 | 47 - 57 | 58 - 68 | 69 - 79 | 80 - 90 | 91 - 101 | 102 - 112 | 113 - 123 |
|----------------|---------|---------|---------|---------|---------|----------|-----------|-----------|
| Frequency | 33 | 19 | 36 | 23 | 46 | 36 | 44 | 16 |

(v)

Class-Interval	36 - 46	47 - 57	58 - 68	69 - 79	80 - 90	91 - 101	102 - 112	113 - 123
Frequency	33	16	36	23	46	36	44	19

2. Identify a class interval table for given frequency polygon.



(i)

Class-Interval	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	50 - 55	55 - 60
Frequency	20	26	46	43	35	25	36	10

(ii)

Class-Interval	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	50 - 55	55 - 60
Frequency	20	26	39	46	35	25	36	10

(iii)

Class-Interval	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	50 - 55	55 - 60
Frequency	20	10	43	46	35	25	36	26

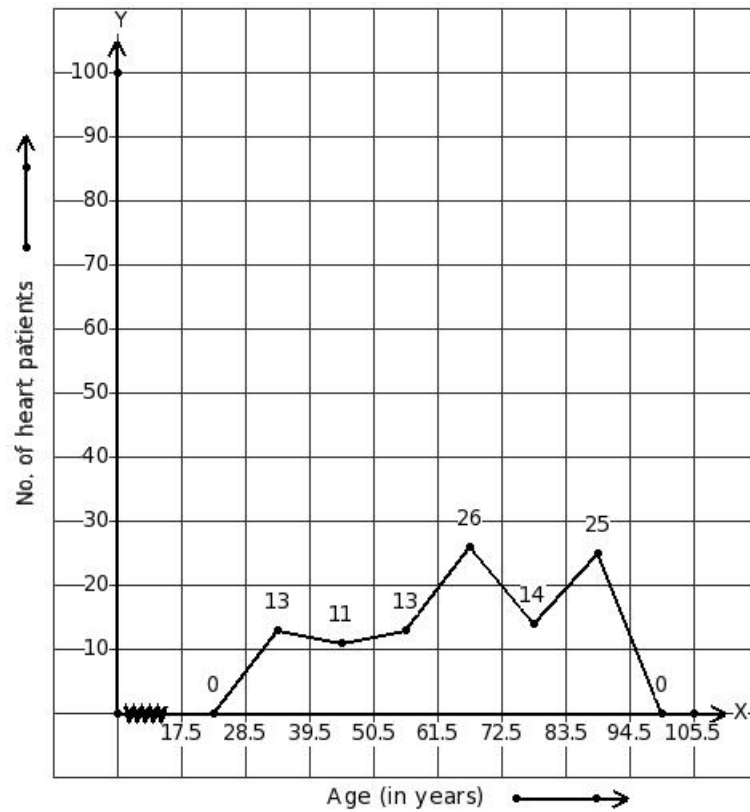
(iv)

Class-Interval	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	50 - 55	55 - 60
Frequency	20	26	43	46	39	25	36	10

(v)

Class-Interval	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	50 - 55	55 - 60
Frequency	20	26	43	46	35	25	36	10

3. Given frequency polygon showing the number of heart patients at various age groups. Identify the class interval table.



(i)

Age (in years)	29 - 39	40 - 50	51 - 61	62 - 72	73 - 83	84 - 94
No. of heart patients	13	25	13	26	14	11

(ii)

Age (in years)	29 - 39	40 - 50	51 - 61	62 - 72	73 - 83	84 - 94
No. of heart patients	13	11	10	26	14	25

(iii)

Age (in years)	29 - 39	40 - 50	51 - 61	62 - 72	73 - 83	84 - 94
No. of heart patients	13	13	11	26	14	25

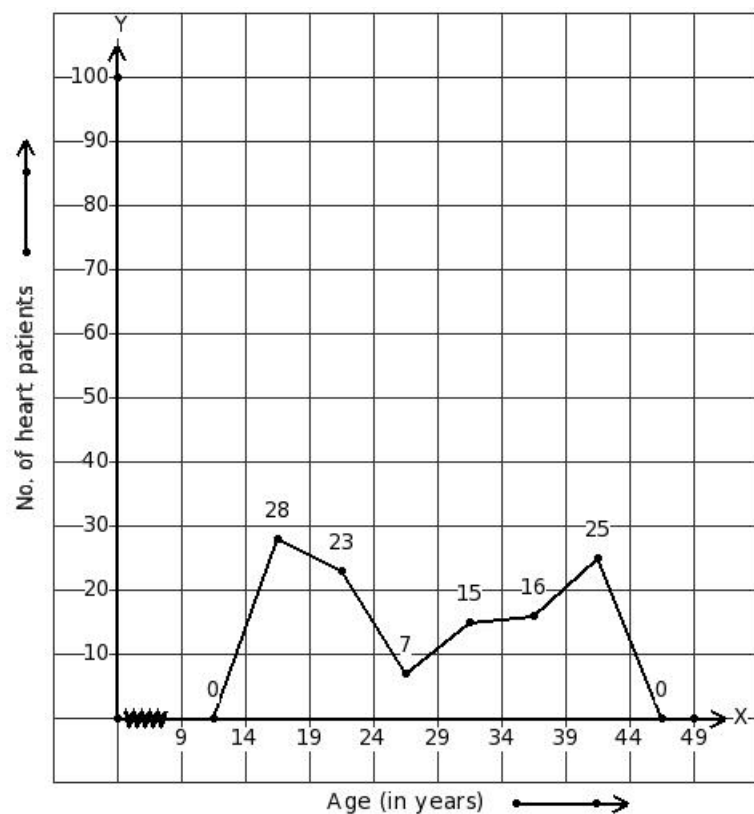
(iv)

Age (in years)	29 - 39	40 - 50	51 - 61	62 - 72	73 - 83	84 - 94
No. of heart patients	13	11	13	26	14	25

(v)

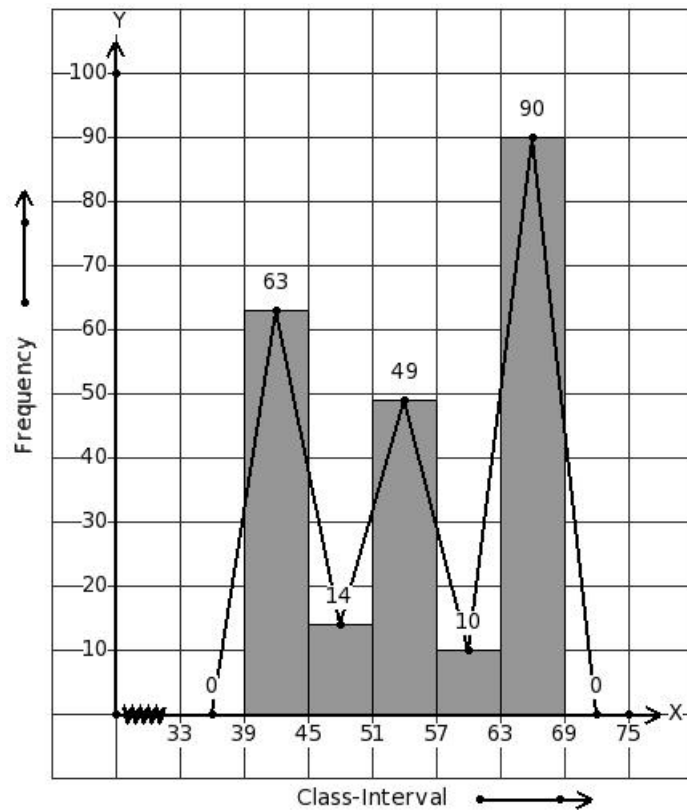
Age (in years)	29 - 39	40 - 50	51 - 61	62 - 72	73 - 83	84 - 94
No. of heart patients	13	11	13	21	14	25

4. Given frequency polygon showing the number of heart patients at various age groups. Identify the class interval table.



- (i)
- | Age (in years) | 14 - 19 | 19 - 24 | 24 - 29 | 29 - 34 | 34 - 39 | 39 - 44 |
|-----------------------|---------|---------|---------|---------|---------|---------|
| No. of heart patients | 28 | 23 | 3 | 15 | 16 | 25 |
- (ii)
- | Age (in years) | 14 - 19 | 19 - 24 | 24 - 29 | 29 - 34 | 34 - 39 | 39 - 44 |
|-----------------------|---------|---------|---------|---------|---------|---------|
| No. of heart patients | 28 | 25 | 7 | 15 | 16 | 23 |
- (iii)
- | Age (in years) | 14 - 19 | 19 - 24 | 24 - 29 | 29 - 34 | 34 - 39 | 39 - 44 |
|-----------------------|---------|---------|---------|---------|---------|---------|
| No. of heart patients | 28 | 7 | 23 | 15 | 16 | 25 |
- (iv)
- | Age (in years) | 14 - 19 | 19 - 24 | 24 - 29 | 29 - 34 | 34 - 39 | 39 - 44 |
|-----------------------|---------|---------|---------|---------|---------|---------|
| No. of heart patients | 28 | 23 | 7 | 15 | 16 | 25 |
- (v)
- | Age (in years) | 14 - 19 | 19 - 24 | 24 - 29 | 29 - 34 | 34 - 39 | 39 - 44 |
|-----------------------|---------|---------|---------|---------|---------|---------|
| No. of heart patients | 28 | 23 | 7 | 17 | 16 | 25 |

5. Identify the class interval table for the given histogram and frequency polygon on same graph.



(i)

Class-Interval	39 - 45	45 - 51	51 - 57	57 - 63	63 - 69
Frequency	63	14	49	10	90

(ii)

Class-Interval	39 - 45	45 - 51	51 - 57	57 - 63	63 - 69
Frequency	63	14	52	10	90

(iii)

Class-Interval	39 - 45	45 - 51	51 - 57	57 - 63	63 - 69
Frequency	63	49	14	10	90

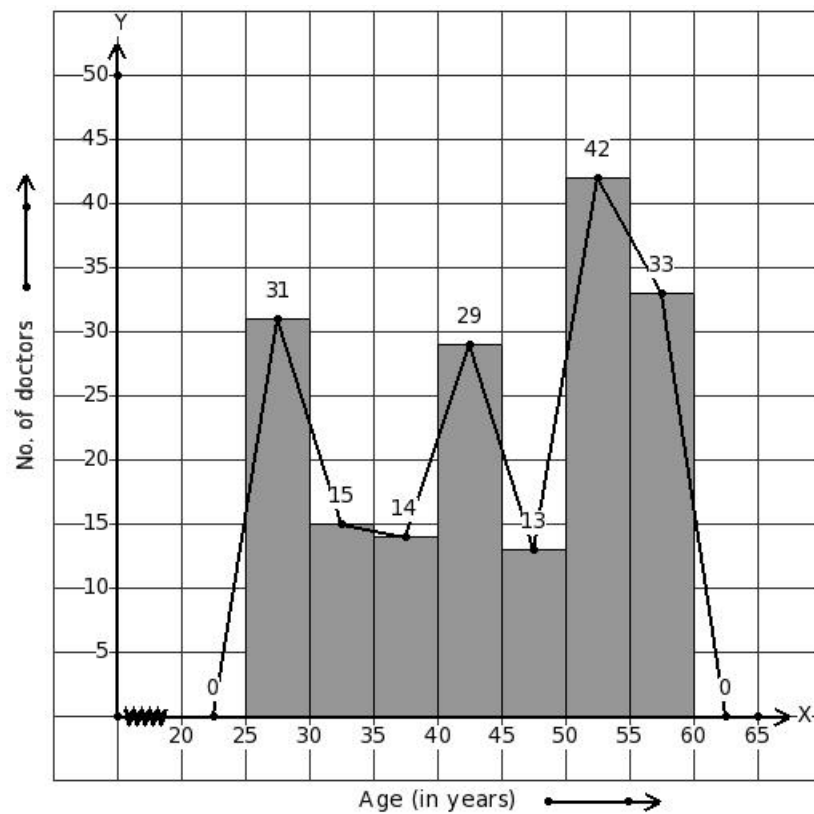
(iv)

Class-Interval	39 - 45	45 - 51	51 - 57	57 - 63	63 - 69
Frequency	63	90	49	10	14

(v)

Class-Interval	39 - 45	45 - 51	51 - 57	57 - 63	63 - 69
Frequency	63	10	49	10	90

6. Given the number of doctors working in government hospitals in a city in various age groups. Identify the class interval table for the given histogram and frequency polygon on same graph.



(i)

Age (in years)	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	50 - 55	55 - 60
No. of doctors	31	15	12	29	13	42	33

(ii)

Age (in years)	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	50 - 55	55 - 60
No. of doctors	31	15	14	29	13	42	33

(iii)

Age (in years)	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	50 - 55	55 - 60
No. of doctors	31	15	14	34	13	42	33

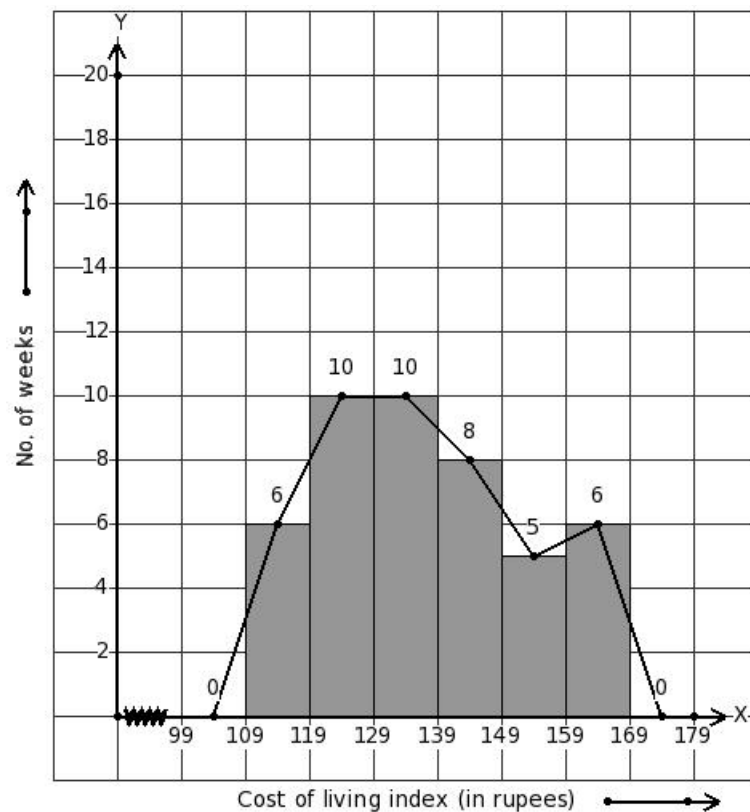
(iv)

Age (in years)	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	50 - 55	55 - 60
No. of doctors	31	33	14	29	13	42	15

(v)

Age (in years)	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	50 - 55	55 - 60
No. of doctors	31	14	15	29	13	42	33

7. Given below is the cost of living index for a particular year in a city. Identify the class interval table for the given histogram and frequency polygon on same graph.



(i)

Cost of living index (in rupees)	109 - 119	119 - 129	129 - 139	139 - 149	149 - 159	159 - 169
No. of weeks	6	10	10	11	5	6

(ii)

Cost of living index (in rupees)	109 - 119	119 - 129	129 - 139	139 - 149	149 - 159	159 - 169
No. of weeks	6	10	10	8	5	6

(iii)

Cost of living index (in rupees)	109 - 119	119 - 129	129 - 139	139 - 149	149 - 159	159 - 169
No. of weeks	6	6	10	8	5	10

(iv)

Cost of living index (in rupees)	109 - 119	119 - 129	129 - 139	139 - 149	149 - 159	159 - 169
No. of weeks	6	10	5	8	5	6

8. The frequency polygon is one drawn using

- (i) lower boundaries of classes and greater than cumulative frequencies
- (ii) upper boundaries of classes and cumulative frequencies
- (iii) end points of classes and frequencies
- (iv) mid point of classes and frequencies

Assignment Key

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