



- Given class interval 12 -14 in exclusive form, its class mark is
(i) 10 (ii) 13 (iii) 16 (iv) 12 (v) 14
- Given class interval 32 -34 in exclusive form, its mid value is
(i) 32 (ii) 34 (iii) 31 (iv) 33 (v) 35
- If the upper and lower limit of class interval are 33 and 28 respectively, then the class interval is
(i) 27.5-33 (ii) 28-33.5 (iii) 28-33 (iv) 28.5-32.5 (v) 27.5-33.5
- If the lower and upper limit of class interval are 10 and 14 respectively, then the class interval is
(i) 10.5-13.5 (ii) 10-14.5 (iii) 10-14 (iv) 9.5-14 (v) 9.5-14.5
- The class boundaries of 45 - 50 which is in exclusive form are
(i) 44.5-50.5 (ii) 45-50 (iii) 44.5-50 (iv) 45.5-49.5 (v) 45-50.5
- The class boundaries of 19 - 24 which is in inclusive form are
(i) 18.5-24.5 (ii) 18-25 (iii) 19-24 (iv) 18-24.5 (v) 18.5-25
- Convert the exclusive form of the class interval 34.5 - 44.5 to inclusive form
(i) 34.5-44 (ii) 35-44 (iii) 35-44.5 (iv) 34.5-44.5 (v) 35.5-43.5
- Convert the inclusive form of the class interval 21 - 26 to exclusive form
(i) 20-27 (ii) 21-26 (iii) 20-26.5 (iv) 20.5-26.5 (v) 20.5-27
- Convert the discontinuous form of the class interval 47 - 50 to continuous form
(i) 47-50 (ii) 46.5-51 (iii) 46-50.5 (iv) 46-51 (v) 46.5-50.5
- Convert the continuous form of the class interval 45.5 - 53.5 to discontinuous form
(i) 45.5-53 (ii) 46-53 (iii) 46-53.5 (iv) 46.5-52.5 (v) 45.5-53.5

11. The class size used in the below table is

Class-Interval	31 - 37	38 - 44	45 - 51	52 - 58	59 - 65	66 - 72
Frequency	20	18	26	27	4	6

- (i) 7 (ii) 5 (iii) 8 (iv) 6 (v) 9

12. The class size used in the below table is

Class-Interval	32 - 37	37 - 42	42 - 47	47 - 52	52 - 57	57 - 62
Frequency	17	18	21	12	21	27

- (i) 4 (ii) 6 (iii) 5 (iv) 2 (v) 7

13. Which of the following are true?

- a) The difference between the true upper limit and true lower limit is called the class mark.
- b) Each numerical figure in a data set is called an observation.
- c) The true lower limit of the inclusive form class interval 50 - 60 is 50.
- d) The number of times a particular observation occurs is called its frequency.
- e) The true lower limit of the exclusive form class interval 50 - 60 is 50.

(i) {b,d,e} (ii) {a,b} (iii) {c,d} (iv) {a,c,e} (v) {a,b,d}

14. Which of the following class intervals are in inclusive form?

- a) 25 - 35 , 36 - 46 , 47 - 57,...
- b) 55 - 65 , 65 - 75 , 75 - 85...
- c) 24.5 - 35.5 , 35.5 - 46.5 , 46.5 - 57.5...
- d) 25 - 35 , 35 - 45 , 45 - 55,...
- e) 58 - 68 , 69 - 79 , 80 - 90,...

(i) {c,e,a} (ii) {a,e} (iii) {b,a} (iv) {d,b,a} (v) {c,e}

The class mark of the class with frequency x is

15.

Class-Interval	Frequency
12 - 22	9
23 - 33	14
34 - 44	14
45 - 55	x
56 - 66	20

(i) 52 (ii) 49 (iii) 48 (iv) 50 (v) 51

The class mark of the class with frequency x is

16.

Class-Interval	Frequency
9 - 19	11
19 - 29	x
29 - 39	10
39 - 49	7
49 - 59	13

(i) 25 (ii) 23 (iii) 22 (iv) 24 (v) 26

The mid value of the class with frequency x is

17.

Class-Interval	Frequency
11 - 16	26
17 - 22	19
23 - 28	18
29 - 34	x
35 - 40	27

(i) $\frac{63}{2}$ (ii) $\frac{61}{2}$ (iii) $\frac{125}{4}$ (iv) $\frac{65}{2}$ (v) 32

The mid value of the class with frequency x is

18.

Class-Interval	Frequency
4 - 9	26
9 - 14	x
14 - 19	16
19 - 24	26
24 - 29	22

- (i) $\frac{45}{4}$ (ii) $\frac{25}{2}$ (iii) 12 (iv) $\frac{21}{2}$ (v) $\frac{23}{2}$

The class boundaries of the class with frequency x is

19.

Class-Interval	Frequency
49 - 57	x
58 - 66	9
67 - 75	6
76 - 84	12
85 - 93	13

- (i) 48-57.5 (ii) 48-58 (iii) 49-57 (iv) 48.5-58 (v) 48.5-57.5

The class boundaries of the class with frequency x is

20.

Class-Interval	Frequency
24 - 32	18
32 - 40	27
40 - 48	18
48 - 56	x
56 - 64	1

- (i) 48-56.5 (ii) 48.5-55.5 (iii) 47.5-56 (iv) 47.5-56.5 (v) 48-56

The true lower limit and true upper limit of the class with frequency x is

21.

Class-Interval	Frequency
23 - 31	30
32 - 40	3
41 - 49	8
50 - 58	26
59 - 67	x

- (i) 58.5-68 (ii) 59-67 (iii) 58-68 (iv) 58.5-67.5 (v) 58-67.5

The true lower limit and true upper limit of the class with frequency x is

22.

Class-Interval	Frequency
10 - 16	6
16 - 22	19
22 - 28	25
28 - 34	26
34 - 40	x

- (i) 34-40.5 (ii) 34.5-39.5 (iii) 33.5-40 (iv) 34-40 (v) 33.5-40.5

The lower limit of the class with frequency x is

23.

Class-Interval	Frequency
13 - 21	30
22 - 30	27
31 - 39	22
40 - 48	x
49 - 57	20

(i) 41 (ii) 39 (iii) 40 (iv) 38 (v) 43

The upper limit of the class with frequency x is

24.

Class-Interval	Frequency
28 - 34	4
34 - 40	29
40 - 46	7
46 - 52	x
52 - 58	23

(i) 54 (ii) 51 (iii) 49 (iv) 52 (v) 53

Given class interval table, find the sum of frequencies.

25.

Class-Interval	12 - 18	19 - 25	26 - 32	33 - 39	40 - 46
Frequency	12	21	20	4	12

(i) 68 (ii) 71 (iii) 69 (iv) 66 (v) 70

Given class interval table, find the sum of frequencies.

26.

Class-Interval	43 - 49	49 - 55	55 - 61	61 - 67	67 - 73	73 - 79	79 - 85	85 - 91
Frequency	10	26	26	30	25	19	3	15

(i) 154 (ii) 153 (iii) 155 (iv) 152 (v) 157

27. Which of the following are continuous variables?

- a) Heights of children in a class.
- b) Number of workers in a factory.
- c) Wages of workers in a factory.
- d) Number of members in a family.
- e) Weights of persons in a group.

(i) {b,a,c} (ii) {d,c} (iii) {b,a} (iv) {b,d,e} (v) {a,c,e}

28. Which of the following are discontinuous variables?

- a) Number of workers in a factory.
- b) Number of members in a family.
- c) Heights of children in a class.
- d) Wages of workers in a factory.
- e) Weights of persons in a group.

(i) {a,b} (ii) {d,b} (iii) {c,a} (iv) {d,b,a} (v) {e,c,a}

Given table in inclusive form, convert it into exclusive form.

29.

Class-Interval	20 - 27	28 - 35	36 - 43	44 - 51	52 - 59
Frequency	12	27	45	31	28

(i)

Class-Interval	19.5 - 27	27.5 - 35	35.5 - 43	43.5 - 51	51.5 - 59
Frequency	12	27	45	31	28

(ii)

Class-Interval	19.5 - 27.5	27.5 - 35.5	35.5 - 43.5	43.5 - 51.5	51.5 - 59.5
Frequency	12	27	45	31	28

(iii)

Class-Interval	19.5 - 26.5	27.5 - 34.5	35.5 - 42.5	43.5 - 50.5	51.5 - 58.5
Frequency	12	27	45	31	28

(iv)

Class-Interval	20.5 - 27.5	28.5 - 35.5	36.5 - 43.5	44.5 - 51.5	52.5 - 59.5
Frequency	12	27	45	31	28

(v)

Class-Interval	20 - 27	27 - 34	34 - 41	41 - 48	48 - 55
Frequency	33	42	27	27	17

30. Which of the following class intervals are in exclusive form?

- a) 17 - 25 , 25 - 33 , 33 - 41, ...
 b) 41 - 49 , 49 - 57 , 57 - 65...
 c) 17 - 25 , 26 - 34 , 35 - 43, ...
 d) 44 - 52 , 53 - 61 , 62 - 70, ...
 e) 16.5 - 25.5 , 25.5 - 34.5 , 34.5 - 43.5...

- (i) {c,a,b} (ii) {a,b,e} (iii) {c,d,e} (iv) {d,b} (v) {c,a}

If the sum of the following frequency distribution is 27 , find the value of 'x'.

31.

Value	Frequency
2	3
3	1
4	2
5	3
7	x
8	2
9	2
10	1
11	2
13	3
14	2

- (i) 3 (ii) 8 (iii) 5 (iv) 7 (v) 6

32. Empirical relation between Mean, Median and Mode is

- (i) $\text{Mode} = 3\text{Median} + 2\text{Mean}$ (ii) $\text{Mode} = 3\text{Median} - 3\text{Mean}$ (iii) $\text{Mode} = 3\text{Median} - 2\text{Mean}$
 (iv) $\text{Mode} = 2\text{Median} - 3\text{Mean}$

33. Find the Mode when Median is 40.9 and Mean is 17.4.

- (i) 88.9 (ii) 85.9 (iii) 89.9 (iv) 87.9 (v) 86.9

34. Find the Mode when Median is 76 and Mean is 63.

- (i) 103 (ii) 102 (iii) 104 (iv) 101 (v) 100

35. The mean and median of a uni-modal grouped data are 57.2 and 46.6 respectively. Find the mode of the data.

- (i) 80.4 (ii) 78.4 (iii) 77.4 (iv) 76.4 (v) 79.4

36. The mean and median of a uni-modal grouped data are 81 and 32 respectively. Find the mode of the data.

- (i) 181 (ii) 180 (iii) 177 (iv) 179 (v) 178

37. Which of the following are continuous variables?

- a) Population of cities
- b) Number of players in a team
- c) Weights of persons in a group
- d) Number of members in a family
- e) Temperature at a place over a month

- (i) {c,e} (ii) {a,c} (iii) {d,a,c} (iv) {b,e} (v) {b,e,c}

38. Which of the following are discrete variables?

- a) Number of players in a team
- b) Number of workers in a factory
- c) Weights of persons in a group
- d) Rainfall at a place over a month
- e) Temperature at a place over a month

- (i) {d,b,a} (ii) {e,c,a} (iii) {a,b} (iv) {c,a} (v) {d,b}

Assignment Key

1) (ii)	2) (iv)	3) (iii)	4) (iii)	5) (ii)	6) (i)
7) (ii)	8) (iv)	9) (v)	10) (ii)	11) (i)	12) (iii)
13) (i)	14) (ii)	15) (iv)	16) (iv)	17) (i)	18) (v)
19) (v)	20) (v)	21) (iv)	22) (iv)	23) (iii)	24) (iv)
25) (iii)	26) (i)	27) (v)	28) (i)	29) (ii)	30) (ii)
31) (v)	32) (iii)	33) (iv)	34) (ii)	35) (ii)	36) (iv)
37) (i)	38) (iii)				