



1. Given class interval 23 - 33 in exclusive form, its class mark is  
(i) 26 (ii) 28 (iii) 27 (iv) 29 (v) 30
2. Given class interval 33 - 39 in exclusive form, its mid value is  
(i) 36 (ii) 38 (iii) 37 (iv) 34 (v) 35
3. If the upper and lower limit of class interval are 35 and 31 respectively, then the class interval is  
(i) 30.5-35.5 (ii) 31-35 (iii) 31.5-34.5 (iv) 30.5-35 (v) 31-35.5
4. If the lower and upper limit of class interval are 11 and 20 respectively, then the class interval is  
(i) 11-20 (ii) 11.5-19.5 (iii) 10.5-20 (iv) 11-20.5 (v) 10.5-20.5
5. The class boundaries of 38 - 43 which is in exclusive form are  
(i) 37.5-43.5 (ii) 38-43.5 (iii) 37.5-43 (iv) 38-43 (v) 38.5-42.5
6. The class boundaries of 10 - 20 which is in inclusive form are  
(i) 9-21 (ii) 9.5-20.5 (iii) 9.5-21 (iv) 10-20 (v) 9-20.5
7. Convert the exclusive form of the class interval 28.5 - 33.5 to inclusive form  
(i) 29-33.5 (ii) 29-33 (iii) 28.5-33 (iv) 28.5-33.5 (v) 29.5-32.5
8. Convert the inclusive form of the class interval 28 - 36 to exclusive form  
(i) 27-37 (ii) 28-36 (iii) 27.5-36.5 (iv) 27.5-37 (v) 27-36.5
9. Convert the discontinuous form of the class interval 38 - 46 to continuous form  
(i) 37-46.5 (ii) 38-46 (iii) 37-47 (iv) 37.5-46.5 (v) 37.5-47
10. Convert the continuous form of the class interval 35.5 - 43.5 to discontinuous form  
(i) 36-43 (ii) 36-43.5 (iii) 35.5-43.5 (iv) 35.5-43 (v) 36.5-42.5

11. The class size used in the below table is

Class-Interval	19 - 24	25 - 30	31 - 36	37 - 42
Frequency	13	17	12	21

- (i) 3 (ii) 9 (iii) 6 (iv) 7 (v) 5

12. The class size used in the below table is

Class-Interval	18 - 23	23 - 28	28 - 33	33 - 38
Frequency	5	12	26	27

- (i) 8 (ii) 2 (iii) 4 (iv) 5 (v) 6

13. Which of the following are true?

- a) The true lower limit of the inclusive form class interval 20 - 30 is 20.
- b) Each numerical figure in a data set is called an observation.
- c) The true lower limit of the exclusive form class interval 20 - 30 is 20.
- d) The number of times a particular observation occurs is called its frequency.
- e) The difference between the true upper limit and true lower limit is called the class mark.

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

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

- a) 52 - 60 , 61 - 69 , 70 - 78,...
- b) 24.5 - 33.5 , 33.5 - 42.5 , 42.5 - 51.5...
- c) 25 - 33 , 33 - 41 , 41 - 49,...
- d) 49 - 57 , 57 - 65 , 65 - 73...
- e) 25 - 33 , 34 - 42 , 43 - 51,...

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

The class mark of the class with frequency x is

15.

Class-Interval	Frequency
14 - 24	11
25 - 35	13
36 - 46	x
47 - 57	27
58 - 68	21

(i) 40 (ii) 42 (iii) 44 (iv) 38 (v) 41

The class mark of the class with frequency x is

16.

Class-Interval	Frequency
17 - 22	15
22 - 27	5
27 - 32	22
32 - 37	1
37 - 42	x

(i)  $\frac{79}{2}$  (ii) 40 (iii)  $\frac{157}{4}$  (iv)  $\frac{77}{2}$  (v)  $\frac{81}{2}$

The mid value of the class with frequency x is

17.

Class-Interval	Frequency
16 - 26	10
27 - 37	30
38 - 48	x
49 - 59	15
60 - 70	15

(i) 45 (ii) 43 (iii) 40 (iv) 44 (v) 42

The mid value of the class with frequency x is

18.

Class-Interval	Frequency
18 - 28	7
28 - 38	23
38 - 48	x
48 - 58	2
58 - 68	16

(i) 44 (ii) 42 (iii) 43 (iv) 41 (v) 45

The class boundaries of the class with frequency x is

19.

Class-Interval	Frequency
26 - 34	2
35 - 43	2
44 - 52	25
53 - 61	x
62 - 70	24

(i) 52-61.5 (ii) 53-61 (iii) 52-62 (iv) 52.5-61.5 (v) 52.5-62

The class boundaries of the class with frequency x is

20.

Class-Interval	Frequency
23 - 29	22
29 - 35	5
35 - 41	x
41 - 47	8
47 - 53	27

(i) 35.5-40.5 (ii) 35-41.5 (iii) 34.5-41 (iv) 35-41 (v) 34.5-41.5

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

21.

Class-Interval	Frequency
27 - 32	22
33 - 38	7
39 - 44	18
45 - 50	27
51 - 56	x

(i) 51-56 (ii) 50-57 (iii) 50.5-57 (iv) 50.5-56.5 (v) 50-56.5

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

22.

Class-Interval	Frequency
24 - 29	6
29 - 34	11
34 - 39	4
39 - 44	15
44 - 49	x

(i) 44-49 (ii) 43.5-49.5 (iii) 43.5-49 (iv) 44-49.5 (v) 44.5-48.5

The lower limit of the class with frequency x is

23.

Class-Interval	Frequency
47 - 52	x
53 - 58	25
59 - 64	21
65 - 70	27
71 - 76	20

- (i) 46 (ii) 49 (iii) 48 (iv) 45 (v) 47

The upper limit of the class with frequency x is

24.

Class-Interval	Frequency
28 - 37	3
37 - 46	24
46 - 55	3
55 - 64	16
64 - 73	x

- (i) 72 (ii) 73 (iii) 71 (iv) 75 (v) 74

Given class interval table, find the sum of frequencies.

25.

Class-Interval	18 - 28	29 - 39	40 - 50	51 - 61
Frequency	17	18	1	19

- (i) 56 (ii) 58 (iii) 52 (iv) 54 (v) 55

Given class interval table, find the sum of frequencies.

26.

Class-Interval	40 - 48	48 - 56	56 - 64	64 - 72
Frequency	20	9	27	16

- (i) 70 (ii) 73 (iii) 71 (iv) 74 (v) 72

27. Which of the following are continuous variables?

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

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

28. Which of the following are discontinuous variables?

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

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

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

29.

Class-Interval	5 - 15	16 - 26	27 - 37	38 - 48	49 - 59	60 - 70
Frequency	50	30	11	11	30	42

(i)

Class-Interval	5.5 - 15.5	16.5 - 26.5	27.5 - 37.5	38.5 - 48.5	49.5 - 59.5	60.5 - 70.5
Frequency	50	30	11	11	30	42

(ii)

Class-Interval	4.5 - 15	15.5 - 26	26.5 - 37	37.5 - 48	48.5 - 59	59.5 - 70
Frequency	50	30	11	11	30	42

(iii)

Class-Interval	4.5 - 15.5	15.5 - 26.5	26.5 - 37.5	37.5 - 48.5	48.5 - 59.5	59.5 - 70.5
Frequency	50	30	11	11	30	42

(iv)

Class-Interval	5 - 15	15 - 25	25 - 35	35 - 45	45 - 55	55 - 65
Frequency	22	48	40	29	44	41

(v)

Class-Interval	4.5 - 14.5	15.5 - 25.5	26.5 - 36.5	37.5 - 47.5	48.5 - 58.5	59.5 - 69.5
Frequency	50	30	11	11	30	42

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

- a) 16 - 21 , 21 - 26 , 26 - 31,...  
 b) 34 - 39 , 40 - 45 , 46 - 51,...  
 c) 16 - 21 , 22 - 27 , 28 - 33,...  
 d) 31 - 36 , 36 - 41 , 41 - 46...  
 e) 15.5 - 21.5 , 21.5 - 27.5 , 27.5 - 33.5...

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

If the sum of the following frequency distribution is 26 ,  
 find the value of 'x'.

31.

Value	Frequency
4	2
5	3
6	9
7	x
9	3
10	1
11	3
12	2

- (i) 6 (ii) 4 (iii) 2 (iv) 3 (v) 0

32. Empirical relation between Mean, Median and Mode is

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

33. Find the Mode when Median is 86.2 and Mean is 71.9.

- (i) 116.8 (ii) 112.8 (iii) 113.8 (iv) 114.8 (v) 115.8

34. Find the Mode when Median is 83 and Mean is 32.

- (i) 185 (ii) 184 (iii) 183 (iv) 186 (v) 187

35. The mean and median of a uni-modal grouped data are 74.5 and 52.7 respectively. Find the mode of the data.

- (i) 118.1 (ii) 119.1 (iii) 117.1 (iv) 120.1 (v) 116.1

36. The mean and median of a uni-modal grouped data are 68 and 61 respectively. Find the mode of the data.

- (i) 83 (ii) 84 (iii) 81 (iv) 80 (v) 82

37. Which of the following are continuous variables?

- a) Marks obtained by student in a particular subject
- b) Rainfall at a place over a month
- c) Number of workers in a factory
- d) Heights of children in a class
- e) Number of players in a team

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

38. Which of the following are discrete variables?

- a) Marks obtained by student in a particular subject
- b) Temperature at a place over a month
- c) Wages of workers in a factory
- d) Rainfall at a place over a month
- e) Number of players in a team

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

## Assignment Key

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