

EduSahara™ Learning Center Assignment

Grade : Class VIII, CBSE
Chapter : Data Handling
Name : Class Interval Table Concepts
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1. Given class interval 36 - 42 in exclusive form, its lower limit is

- (i) 38 (ii) 34 (iii) 36 (iv) 37 (v) 35
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2. Given class interval 33 - 42 in exclusive form, its upper limit is

- (i) 41 (ii) 44 (iii) 39 (iv) 43 (v) 42
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3. Given class interval 40 - 42 in exclusive form, its class size is

- (i) 2 (ii) 5 (iii) 1 (iv) 0 (v) 3
-

4. Given class interval 43 - 49 in exclusive form, its class mark is

- (i) 43 (ii) 45 (iii) 47 (iv) 48 (v) 46
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5. Given class interval 39 - 48 in exclusive form, its mid value is

- (i) $\frac{87}{2}$ (ii) $\frac{89}{2}$ (iii) 44 (iv) $\frac{173}{4}$ (v) $\frac{85}{2}$
-

6. If the upper and lower limit of class interval are 16 and 12 respectively, then the class interval is

- (i) 11.5 - 16.5 (ii) 12.5 - 15.5 (iii) 11.5 - 16 (iv) 12 - 16.5 (v) 12 - 16
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7. If the lower and upper limit of class interval are 37 and 47 respectively, then the class interval is

- (i) 36.5 - 47.5 (ii) 36.5 - 47 (iii) 37.5 - 46.5 (iv) 37 - 47 (v) 37 - 47.5
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8. The class boundaries of 24 - 33 which is in exclusive form are

- (i) 23.5 - 33.5 (ii) 24 - 33.5 (iii) 24 - 33 (iv) 24.5 - 32.5 (v) 23.5 - 33
-

The class size used in the below table is

9.

Class-Interval	42 - 50	50 - 58	58 - 66	66 - 74	74 - 82	82 - 90
Frequency	13	28	18	1	8	21

- (i) 8 (ii) 11 (iii) 9 (iv) 7 (v) 5

10. In exclusive form representation, the observation 24 falls in which class?

- (i) 24 - 34 (ii) 29 - 39 (iii) 34 - 44 (iv) 14 - 24 (v) 19 - 24

The class mark of the class with frequency x is

11.

Class-Interval	Frequency
15 - 20	22
20 - 25	x
25 - 30	7
30 - 35	1
35 - 40	22

- (i) $\frac{43}{2}$ (ii) $\frac{89}{4}$ (iii) 23 (iv) $\frac{45}{2}$ (v) $\frac{47}{2}$

The class boundaries of the class with frequency x is

12.

Class-Interval	Frequency
44 - 51	4
51 - 58	16
58 - 65	18
65 - 72	x
72 - 79	15

- (i) 65 - 72 (ii) 65.5 - 71.5 (iii) 65 - 72.5 (iv) 64.5 - 72.5 (v) 64.5 - 72

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

13.

Class-Interval	Frequency
33 - 38	7
38 - 43	28
43 - 48	11
48 - 53	x
53 - 58	10

- (i) 48 - 53.5 (ii) 47.5 - 53.5 (iii) 48 - 53 (iv) 48.5 - 52.5 (v) 47.5 - 53

The upper limit of the class with frequency x is

14.

Class-Interval	Frequency
33 - 40	x
40 - 47	9
47 - 54	15
54 - 61	18
61 - 68	7

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

15. If the sample data with range 30 has to be divided into 5 class intervals, then the length of the class is

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

16. If the length of the class is 7, then the number of class intervals needed to represent data with range 50 is

(i) 6 (ii) 8 (iii) 11 (iv) 7 (v) 9

The number of classes of class size 8 required to represent the given random sample in exclusive form

17. 1 , 1 , 4 , 5 , 5 , 5 , 10 , 12 , 14 , 15 , 15 , 17 , 20 , 21 , 22
22 , 27 , 29 , 30 , 30 , 35 , 37 , 38 , 38 , 39 , 39 , 40 , 40 , 42 , 42
44 , 44 , 48 , 49 , 49 , 49 , 50

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

18. If some random sample data is arranged in a frequency distribution table in exclusive form with 1 - 7 as the first class, then the observation 23 falls in which class?

(i) 18.5 - 25.5 (ii) 19.5 - 24.5 (iii) 20 - 26 (iv) 18 - 24 (v) 19 - 25

Given class interval table, find the sum of frequencies.

19.

Class-Interval	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	50 - 55	55 - 60	60 - 65
Frequency	8	27	27	12	2	13	4	14

(i) 105 (ii) 107 (iii) 109 (iv) 108 (v) 106

20. The class marks of a frequency distribution are 14 , 22 , 30 , 38 . Find the class size and class intervals in exclusive form

- (i) 8 ; 9 - 17 , 17 - 25 , 25 - 33 , 33 - 41
 - (ii) 9 ; 10 - 18 , 19 - 27 , 28 - 36 , 37 - 45
 - (iii) 8 ; 10 - 18 , 18 - 26 , 26 - 34 , 34 - 42
 - (iv) 8 ; 11 - 19 , 19 - 27 , 27 - 35 , 35 - 43
 - (v) 10 ; 9 - 18 , 19 - 28 , 29 - 38 , 39 - 48
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Assignment Key

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