

Mathematics

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(Chapter – 13) (Statistics & Probability)(Exemplar Problems)
(Class – X)

Exercise 13.1

Choose the correct answer from the given four options:

Question 8:

For the following distribution,

Marks	Number of students
Below 10	3
Below 20	12
Below 30	27
Below 40	57
Below 50	75
Below 60	80

The modal class is

(A) 10 – 20

(B) 20 – 30



(C) 30 – 40

(D) 50 – 60

Answer 8:

(C) 30 – 40

Solution:

Proper frequency table:

Marks	Number of students	Cumulative frequency
Below 10	$3 = 3$	3
10 – 20	$(12 - 3) = 9$	12
20 – 30	$(27 - 12) = 15$	27
30 – 40	$(57 - 27) = 30$	57
40 – 50	$(75 - 57) = 18$	75
50 – 60	$(80 - 75) = 5$	80

Here, the highest frequency is 30, which lies in the interval 30 – 40.

Hence, the option (C) is correct.

