

General instructions for Students: Whatever be the notes provided, everything must be copied in the Maths copy and then do the HOMEWORK in the same copy.

### 20. Statistics

#### EXERCISE – 20.2 (Part – II)

8. The marks of 200 students in a test were recorded as follows:

Marks %	10 – 19	20 – 29	30 – 39	40 – 49	50 – 59	60 – 69	70 – 79	80 – 99
No. of students	7	11	20	46	57	37	15	7

Draw the cumulative frequency table.

**Solution :**

Marks %	Frequency	Cumulative frequency
10 – 19	7	7
20 – 29	11	$7 + 11 = 18$
30 – 39	20	$18 + 20 = 38$
40 – 49	46	$38 + 46 = 84$
50 – 59	57	$84 + 57 = 141$
60 – 69	37	$141 + 37 = 178$
70 – 79	15	$178 + 15 = 193$
80 – 89	7	$193 + 7 = 200$

**12. Rewrite the following cumulative frequency distribution into frequency distribution :**

less than or equal to 10	2
less than or equal to 20	7
less than or equal to 30	18
less than or equal to 40	32
less than or equal to 50	43
less than or equal to 60	50

**Solution :**

<b>Class Interval</b>	<b>0 – 10</b>	<b>11 – 20</b>	<b>21 – 30</b>	<b>31 – 40</b>	<b>41 – 50</b>	<b>51 – 60</b>
<b>Frequency</b>	2	$7 - 2 = 5$	$18 - 7 = 11$	$32 - 18 = 14$	$43 - 32 = 11$	$50 - 43 = 7$

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**HOMEWORK**

**EXERCISE – 20.2**

**QUESTION NUMBERS : 10, 13 and 14**