



**Class-5**

**Subject-Mathematics**

**Chapter-13 (Data Arrangement)**

**Date: 29/10/2020**

**Lecture- 02**

**Solution**

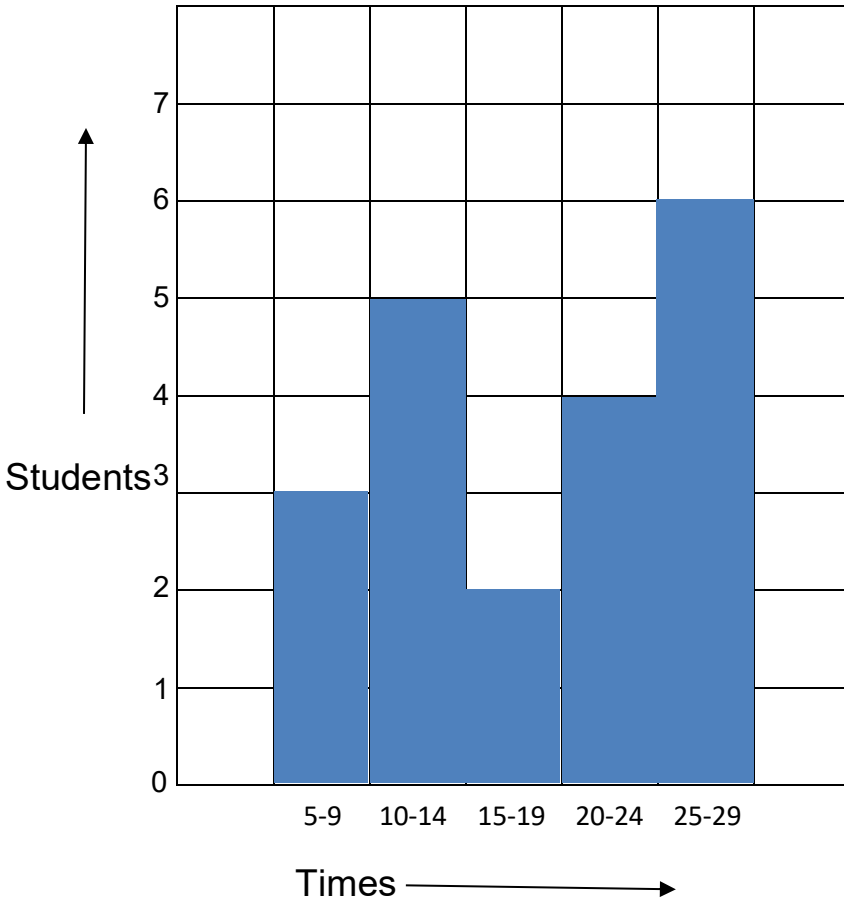
**1) Draw a histogram to express the information in the table for the times that Section B students submitted homework.**

**Section B**

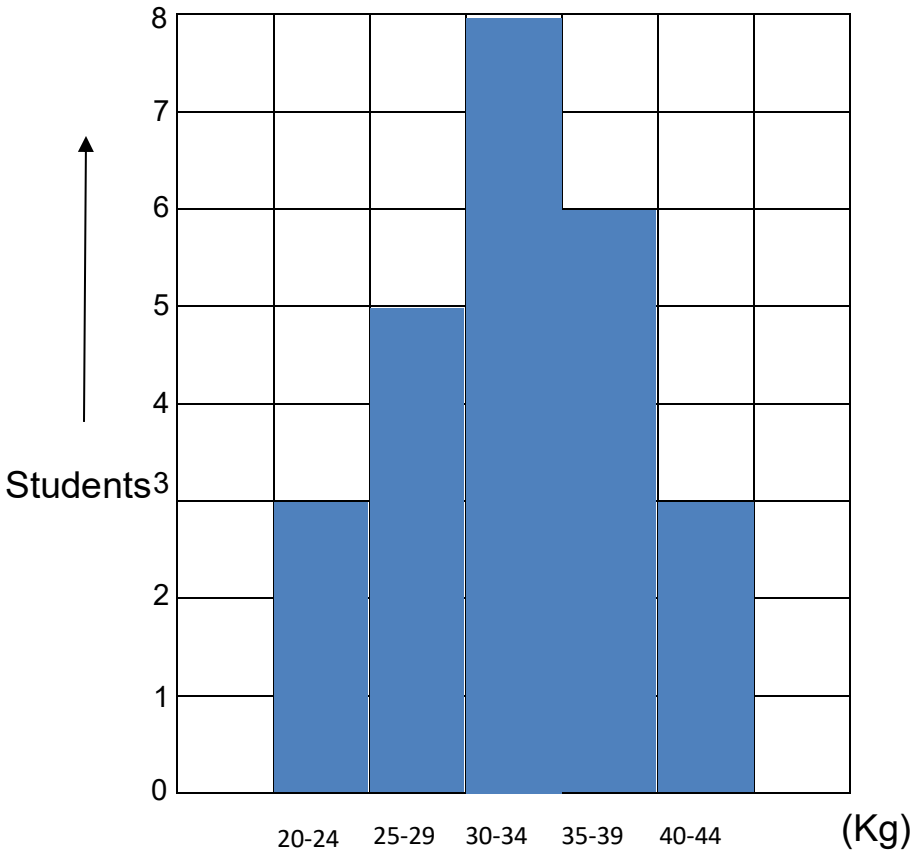
<b>Class Interval to submit homework</b>	<b>Number</b>
<b>5 – 9</b>	<b>3</b>
<b>10 – 14</b>	<b>5</b>
<b>15 – 19</b>	<b>2</b>
<b>20 – 24</b>	<b>4</b>
<b>25 – 29</b>	<b>6</b>
<b>Total</b>	<b>20</b>

**Solution:** A histogram of the data presented in the table relating to submitting homework of the students of section B is drawn below:

Section A



2) The histogram on the below shows the weight of all the Grade 4 students in one school.



### Weight of Grade 4 students

- How many Grade 4 students are there in this school?
- What class includes more students than others?
- How many percent of students are there in the class 35 – 39?
- How many percent of students are less than or equal to 29 kilograms in weight?

### Solution:

a) There are =  $3+5+8+6+3 = 25$  students of Grade 5 in this school.

Ans: 25 students.

b) The class 30 – 34 includes more students than others.

Ans: 30 – 34.

c) There are 6 students in the class 35 – 39.

Total students = 25

$$\begin{aligned}\therefore \text{Percent of students in the class 35 – 39} &= \frac{6}{25} \times 100\% \\ &= 24\%\end{aligned}$$

Ans: 24%

d) (3+5) or 8 students are less than or equal to 29 kg in weight.

Total students = 25

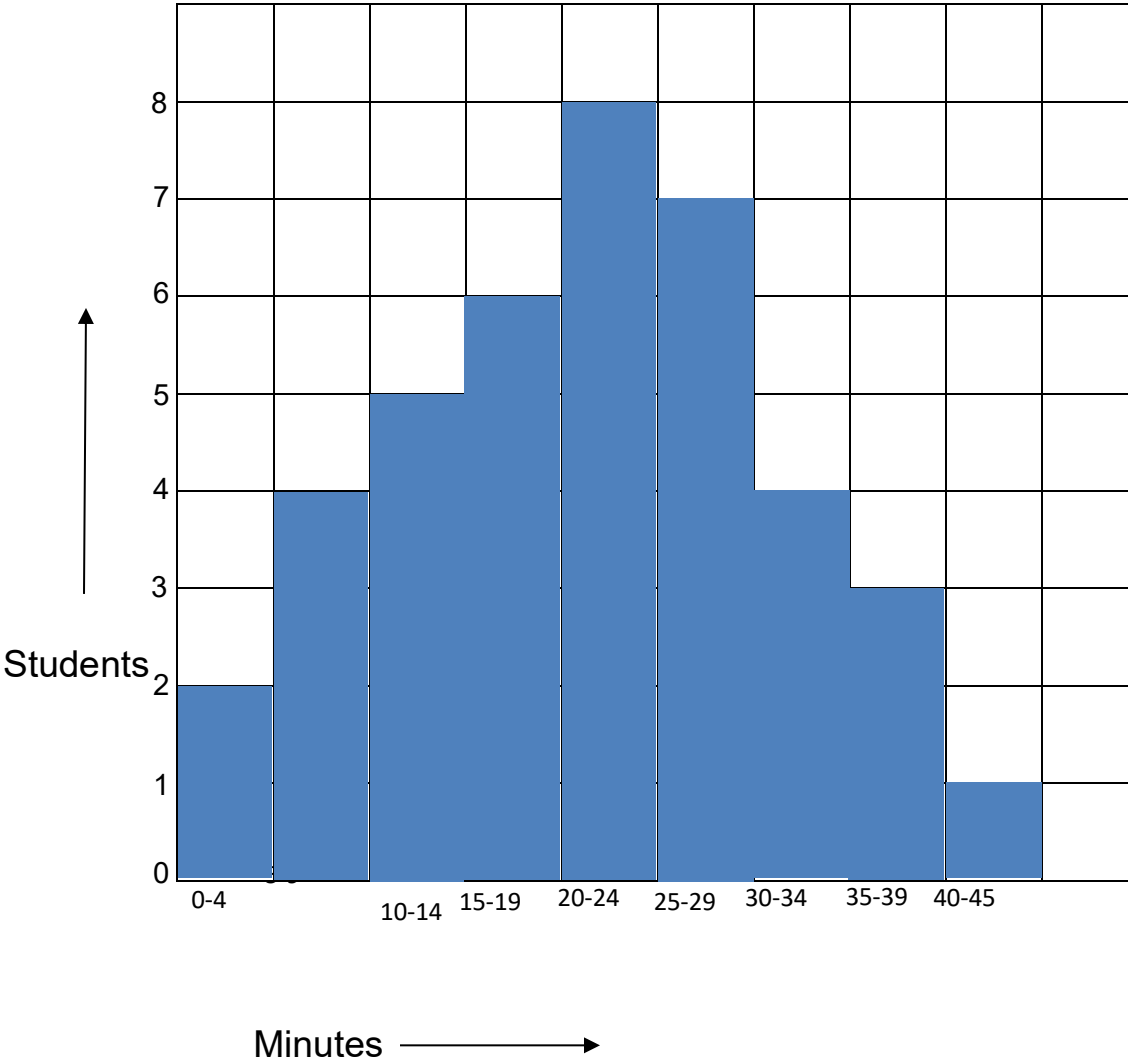
$\therefore$  The percent of students who are less than or equal to 29 kg in weight

$$\begin{aligned}&= \frac{8}{25} \times 100\% \\ &= 32\%\end{aligned}$$

Ans: 32%

3) The histogram below shows the result to survey on how many minutes grade 5 students spend time to travel to school.

Travelling time to school



- a) How many grade 5 students joined the survey?
- b) What class includes more students than others?
- c) How many present of students spend more than 30 minutes to come to the school?

**Solution:**

a) Total number of students of grade 5 have come under the survey

$$= 2+4+5+6+8+7+4+3+1$$

$$= 40$$

Ans: 40 students.

b) Maximum students lie in the class of 20 – 24.

Ans: 20 – 24.

c) Here, total number of students = 40

Total number of students need time more than 30 minutes =  $4+3+1 = 8$

∴ Percentage of student need time more than 3

$$\text{Minutes} = \frac{8}{40} \times 100\%$$

$$= 20\%$$

Ans: 20%

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