Swotters Academy

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Test / Exam Name: Ch9_data_handling **Standard: 6th** **Subject: Mathematics**

Student Name: ..... **Section:** ..... **Roll No.:** .....

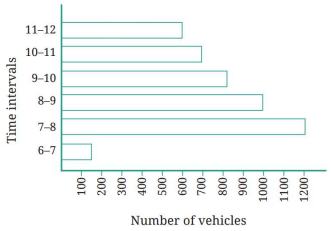
Questions: 13 **Time: 00:40 hh:mm** **Marks: 30**

Instructions

1. Keep proper timer
2. Do the images for reference, if required.
3. Compulsorily write proper question numbers and do the rough work on right side
4. Honesty is the best policy.
5. Make you work tidy

SECTION-A

Q1. **1 Mark**



How many total cars passed through the crossing between 6 am and noon?

Q2. **1 Mark**

Sweets	Tally Marks	No. of Students
Jalebi	𝍸 I	6
Gulab Jamun	𝍸 IIII	9
Gujiya	𝍸 𝍸 III	_____
Barfi	III	_____
Rasgulla	𝍸 II	_____

Complete the table to help Shri Nilesh to purchase the correct numbers of sweets:

1. How many students chose jalebi? _____
2. Barfi was chosen by students? _____
3. How many students chose gujiya? _____
4. Rasgulla was chosen by _____ students?
5. How many students chose gulab jamun? _____

Q3. Define the following terms: **1 Mark**

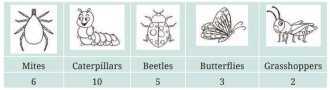
Data.

Q4. Define the following terms: **1 Mark**

Frequency of an observation.

SECTION-B

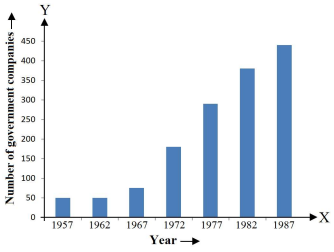
Q5. Samantha visited a tea garden and collected data of the insects and critters she saw there. Here is the data she collected; **2 Marks**



Mites	Caterpillars	Beetles	Butterflies	Grasshoppers
6	10	5	3	2

Help her prepare a bar graph representing this data.

Q6. Read the following bar graph and answer the following questions: **2 Marks**



1. What is the information given by the bar graph?
2. State the following whether true or false.

The number of government companies have decreased over the year 1957 to 1983.

Q7. The final marks in mathematics of 30 students are as follows: **2 Marks**

53, 61, 48, 60, 78, 68, 55, 100, 67, 90
75, 88, 77, 37, 84, 58, 60, 48, 62, 56
44, 58, 52, 64, 98, 59, 70, 39, 50, 60

How many have scored 75 or more?

SECTION-C

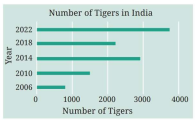
Q8. Chinu listed the various means of transport that passed across the road in front of his house from 9 am to 10 am: **3 Marks**

bike	car	bike	bus	bike	bike
bike	auto	bicycle	bullock cart	bicycle	auto
car	scooter	car	auto	bicycle	bike
car	auto	bike	scooter	bike	car
bicycle	scooter	bicycle	scooter	bike	bus
auto	auto	bike	bicycle	bus	bike
bicycle	scooter	bus	scooter	auto	bike
scooter	bicycle	bike	bullock cart	auto	scooter
car	scooter				

1. Prepare a frequency distribution table for the data.
2. Which means of transport was used the most?
3. If you were there to collect this data, how could you do it? Write the steps or process.

Q9. The number of tigers in India went down drastically between 1900 and 1970. Project Tiger was launched in 1973 to track and protect tigers in India. Starting in 2006, the exact number of tigers in India was tracked. Shagufta and Divya looked up information about the number of tigers in India between 2006 and 2022 in 4-year intervals. They prepared a frequency table for this data and a bar graph to present this data, but there are a few mistakes in the graph. Can you find those mistakes and fix them? **3 Marks**

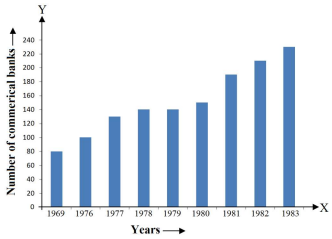
Year	Number of Tigers (approx.)
2006	1400
2010	1700
2014	2200
2018	3000
2022	3700



Q10. Study the bar graph representing the number of persons in various age groups in a town shown in Fig. Observe the bar grouph and answer the following questions: **3 Marks**

1. What is the information given by the bar graph?
2. What was the number of commercial banks in 1977?
3. What is the ratio of the number of commercial bank in 1969 to that in 1980?
4. State whether true or false:

The number of commercial banks in 1983 in less than double the number of commercial banks in 1969.



Bar group of the number of commercial banks in india during some years

Q11. A survey of 120 school students was conducted to find out which activity they preferred to do in their free time. **3 Marks**

Preferred Activity	Number of Students
Playing	45
Reading story books	30
Watching TV	20
Listening to music	10
Painting	15

Draw a bar graph to illustrate the above data taking the scale of 1 unit length = 5 students. Which activity is preferred by most students other than playing?

Q12. A die was thrown 25 times and following scores were obtained: **3 Marks**

1	5	2	4	3
6	1	4	2	5
1	6	2	6	3
5	4	1	3	2
3	6	1	5	2

Prepare a frequency distribution table.

SECTION-D

Q13. Faiz prepared a frequency distribution table of data on the number of wickets taken by Jaspreet Bumrah in his last 30 matches: **5 Marks**

Wickets Taken	Number of Matches
0	2
1	4
2	6
3	8
4	3
5	5
6	1
7	1

1. What information is this table giving?
2. What may be the title of this table?
3. What caught your attention in this table?
4. In how many matches has Bumrah taken 4 wickets?
5. Mayank says “If we want to know the total number of wickets he has taken in his last 30 matches, we have to add the numbers 0, 1, 2, 3 …, up to 7.” Can Mayank get the total number of wickets taken in this way? Why?
6. How would you correctly figure out the total number of wickets taken by Bumrah in his last 30 matches, using this table?