

## **MATHS LESSON NOTE FOR JS ONE**

**DATE:** 4<sup>th</sup> MAY, 2020

**TOPICS:** GRAPHICAL REPRESENTATION OF DATA

**SUB-TOPICS:** BAR CHART.

**OBJECTIVES:** At the end of the lessons, Students should be able to:

1. explain bar chart
2. represent data on a bar chart

### **INTRODUCTION:**

Data that has been collected, organised and summarised can also be represented graphically, so that it can be interpreted.

Graphs are useful as they give a picture of the results and is easy to understand. To represent a data graphically, we use

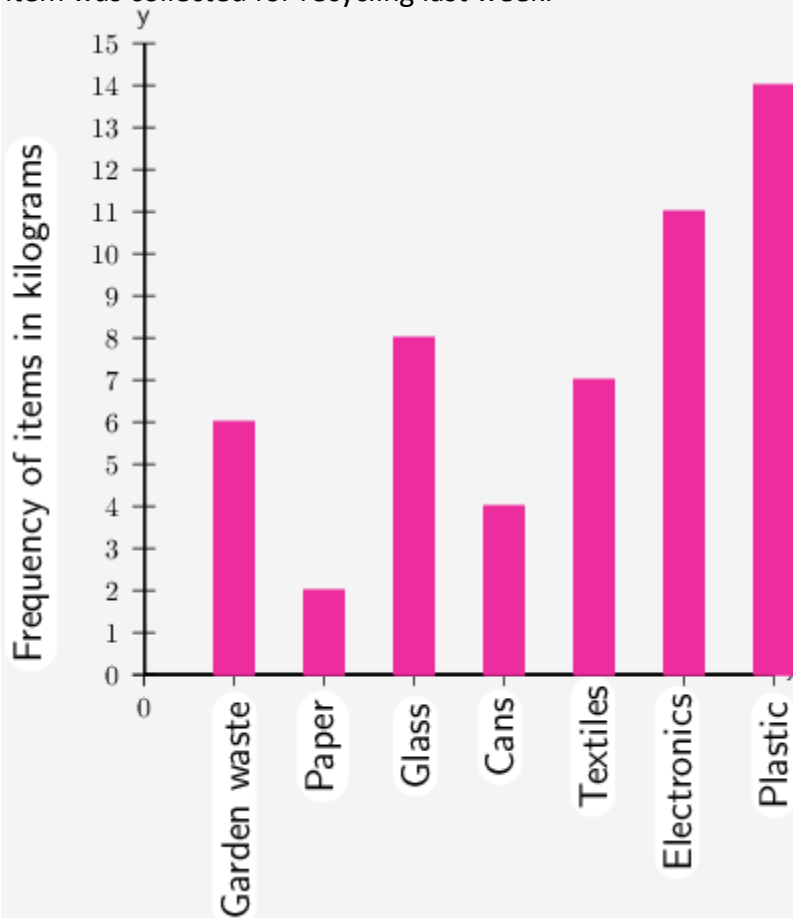
- 1) Bar chart
- 2) Pie Chart

### **Bar Chart:**

A bar chart is a type of graph that uses either horizontal or vertical bars to show how categories/data compare with each other.

### WORKED EXAMPLE 1:

School A started a recycling project. The bar chart below shows how many kilograms of each item was collected for recycling last week.



1. Of which item did the school collect the greatest number of kilograms?
2. Of which item did the school collect 7 kg?
3. Of which item did the school collect the smallest number of kilograms?

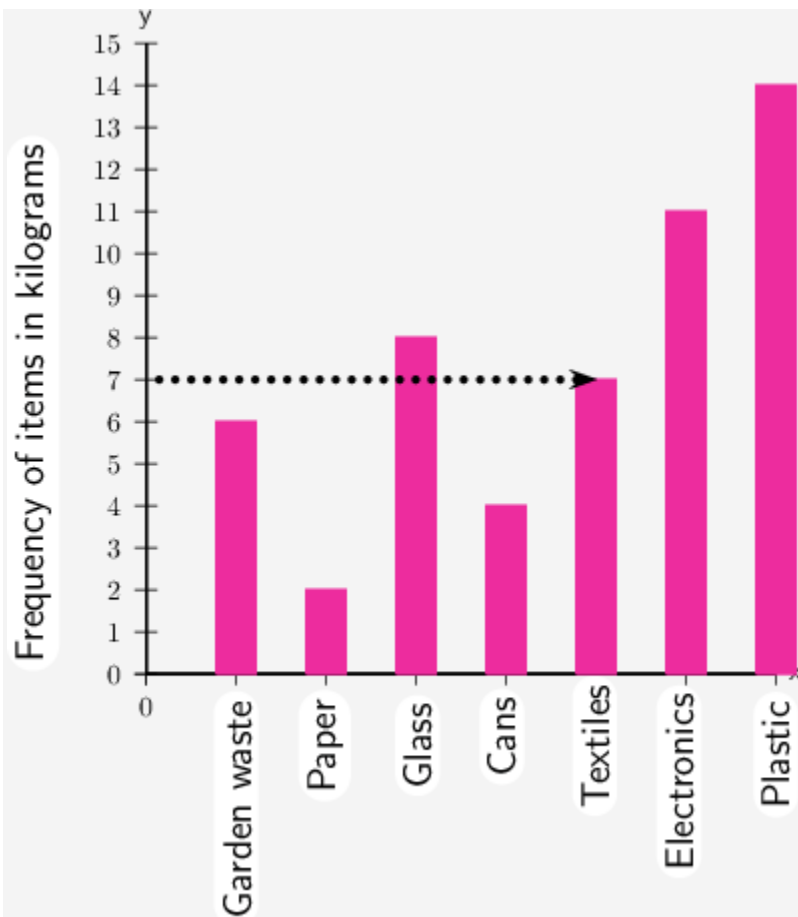
### SOLUTION

1. **Step 1: Find the highest bar on the graph, and use a ruler to find the frequency for that item.**

From the graph we can see that the highest bar shows 14 kg, and it is for plastic.

More kilograms of plastic were collected than any other category.

2. **Step 2: Find 7 kg on the vertical axis and then draw a horizontal line across until you reach the bar that is 7 kg high.**



From the graph we can see that that bar that is 7 kg high is textiles.

The school collected 7 kg of textiles.

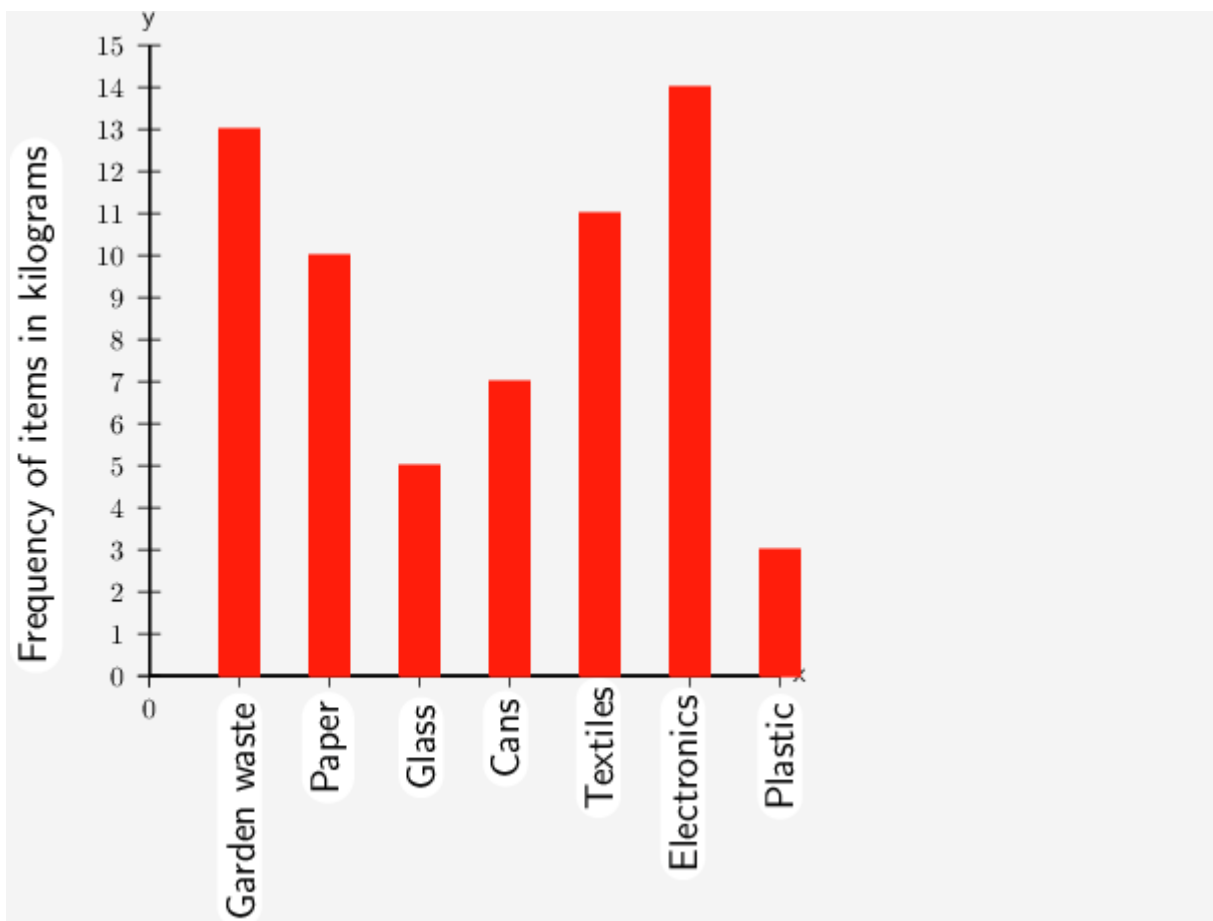
### 3. Step 3: Find the shortest bar.

From the graph we can see that the shortest bar shows 2 kg, and it is for paper.

The smallest number of kilograms collected was for paper.

### CLASS WORK EXERCISE

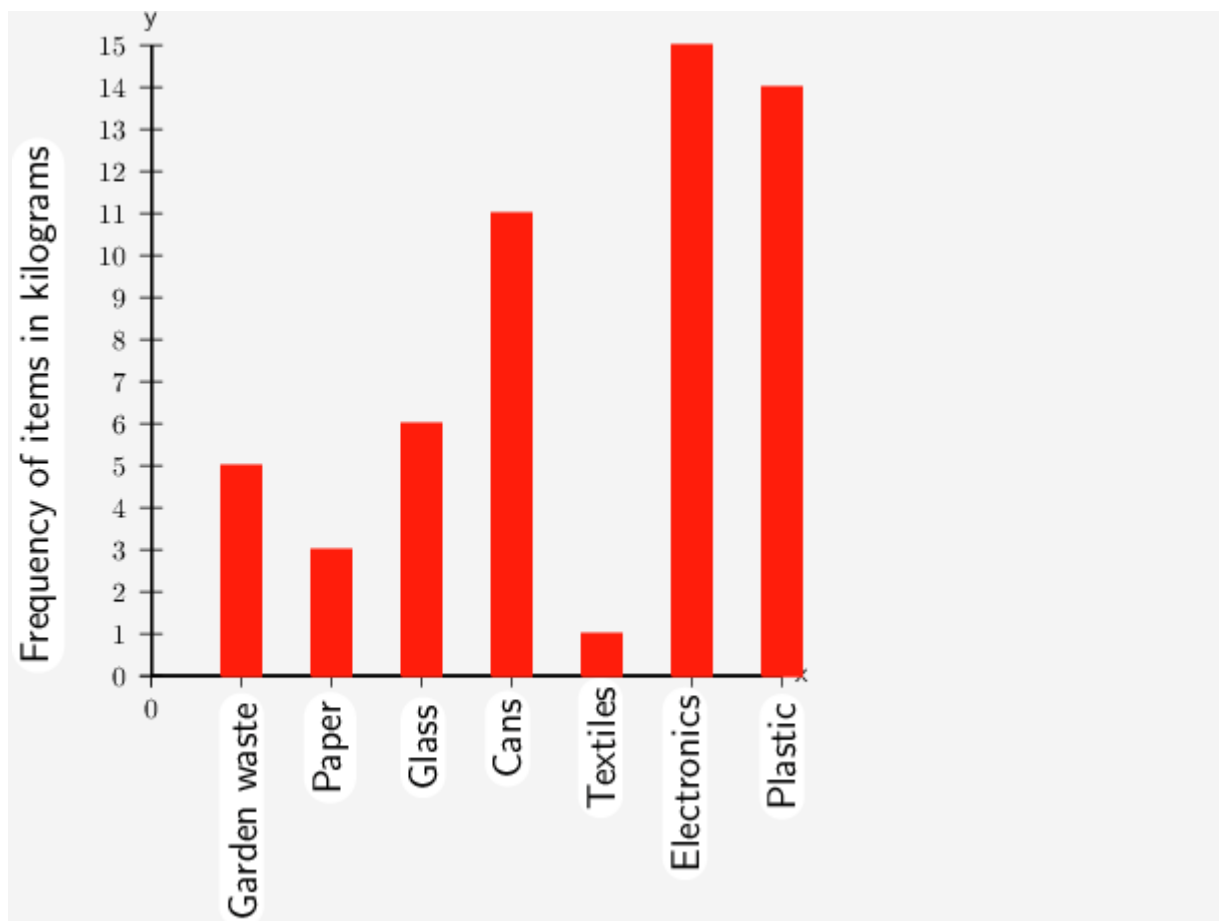
**School B** also started a recycling project. The bar chart below shows how many kilograms of each item they recycled in one week.



- Of which item did the school collect the most, in kilograms?
- From the recycled items, of which item did the school collect 13 kg?
- Of which item did the school collect the least, kilograms?

### ASSIGNMENT

**School C** also started a recycling project. The bar chart below shows how much of each item they recycled in one week.



- d. Of which item did the school collect the most?
- e. Of which item did the school collect 1 kg?
- f. Of which item did the school collect the least?