



Lesson : Statistics

Sub-Topic: Collecting, sorting and grouping data.

Grade Level: 2

Duration: 1 Hour

Specific Objectives

By the end of the lesson, the students should be able to:

- Read data presented in concrete graphs, pictographs, simple bar graphs, and other graphic organizers (e.g., tally charts, diagrams)
- Gather data to answer a question, using a simple survey with a limited number of responses.
- Collect and organize primary data (e.g., data collected by the class)

Prerequisite Knowledge

Students should already know:

- How to interpret pictographs.
- How to organize data based upon similarities of the items given.
- How to count to one hundred.

Materials/Manipulative

- Graphs, sticks, counters, and interlocking cubes.

Content Outline

- **Data collection:** is the process of gathering and measuring information.
- **Grouping:** combining several objects together, so they can be viewed as a single unit.

Procedure

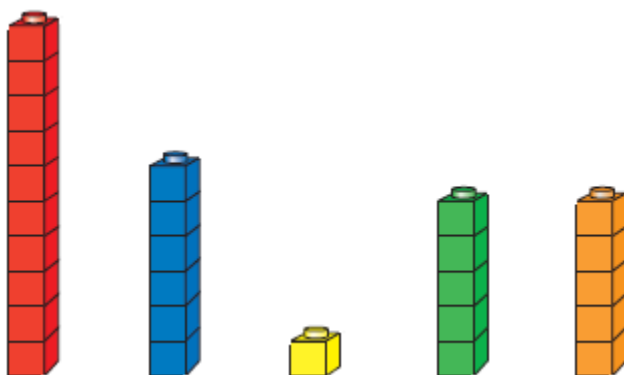
Engage:

The students will be engaged by the teacher in finding out what are the various modes of transportation which they use to come to school, by asking “*How do you get to school?* “ The results will be taken and tallied in table form.

How Do You Get to School?	
Walk	
Car	
Bus	

Explore:

The teacher will send around a container of interlocking tubes of varying colour. The teacher will invite all students to take a cube which represents their favourite colour. The cubes will then be collected from each student one colour at a time, and connect them making a bar. The bars which are made will be placed in an upright position on the teacher's desk. This will create a concrete graph.



The teacher will engage the students by writing questions on the board which will allow the students to compare the data represented by the concrete graph. The students will be required to draw the diagram of the graph in their books write and answer the following questions, which will be read aloud by the teacher.

- What is the favourite colour of most students? How do you know?
- What is the least favourite colour? How do you know?
- How many students chose red as their favourite colour?
- Did more students choose green or yellow?

Explain:

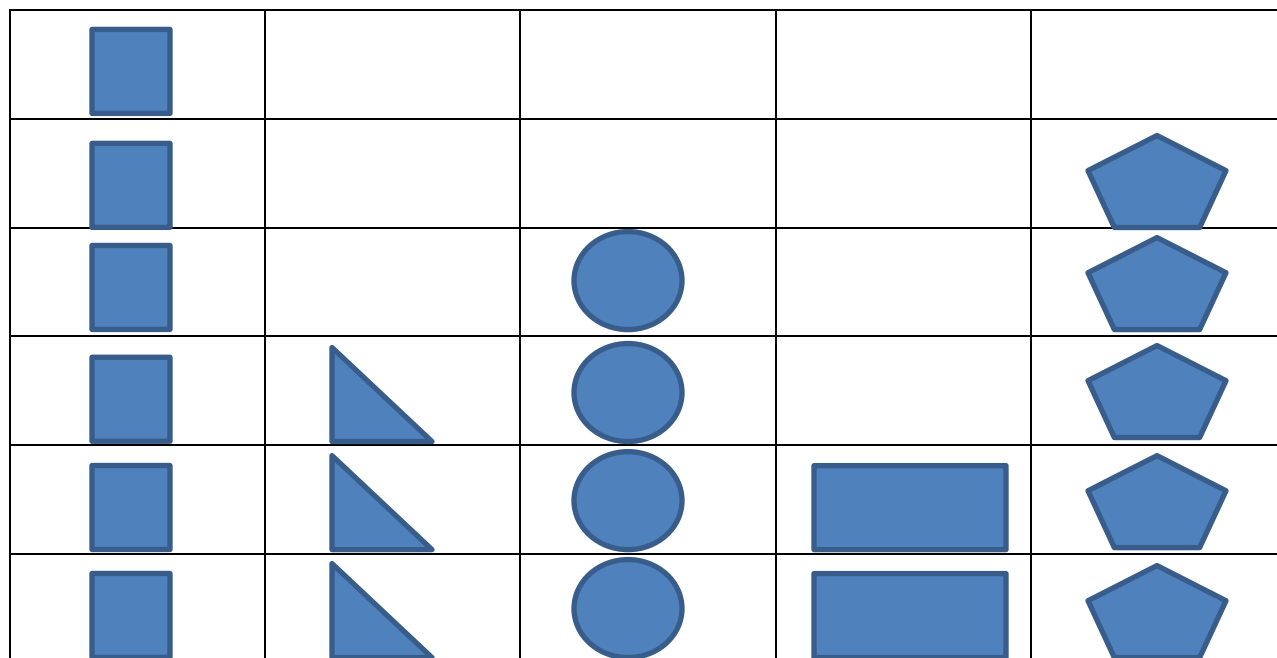
After this exercise is completed the students will be engaged in a discussion by the teacher about the questions which they have written and answered.

Evaluate:

A worksheet will be given to the students.

Worksheet showing pictograph.

Pictograph showing various shapes.



1. Which shape is the fewest?
2. How many squares are there?
3. Are there more triangles or rectangles?
4. Which shape counts only four?
5. How many shapes are represented in the pictograph?

Elaborate:

After discussing the main elements of a pictograph, each student will write two things that they have learnt about pictographs in their math journal.