

Dear Parents,

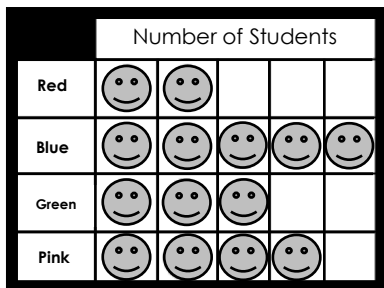
Over the next few weeks, we will be learning about **data & graphing** in math! The information below will help you to support your child as they learn these exciting, yet important second grade math skills.

The GOAL:

By the end of the unit, your child should be able to **collect and display data in various forms**. Children should also be able to **interpret the data from tally charts, picture graphs, bar graphs, and line plots**.

Pictograph

Students Favorite Colors



Key 😊 = 1 Student

A **pictograph** is a way to show data using pictures. In the graph to the left, each smiley face represents one student.

In the pictograph, how many students like the color blue?

How many more students like blue than red?

How many students like green and pink?

Tally Chart

Favorite Pets		
Pet	Tally Marks	Number
	### ##	10
		4
	###	6

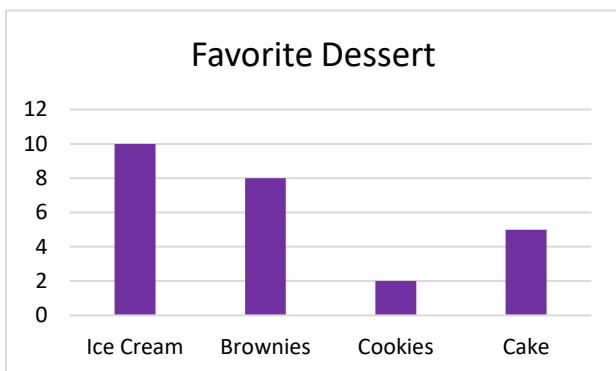
A **tally chart** is a way to show data using tally marks. In the chart to the left, each tally mark represents one response.

In the tally chart, how many students chose a cat as their favorite pet?

How many more students like hamsters than dogs?

How many fewer students like dogs than cats?

Bar Graph



A **bar graph** is a way to show data using bars. In the graph to the left, bars represent the number of students who voted for their favorite dessert.

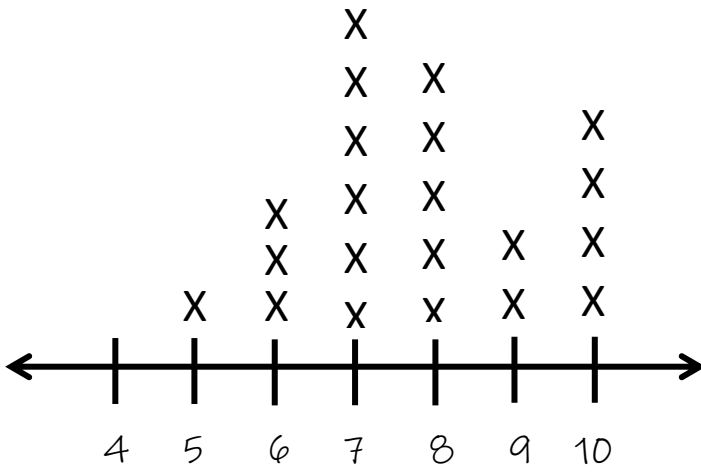
In the bar graph, how many students like cake?

How many more students like ice cream than cookies?

How many fewer students like cake than brownies?



Number of Books Read



A **line plot** is a way to show data **using an X**. In the line plot to the left, each X represents the number of students who read a specific amount of books.

In the line plot, how many students read seven books?

How many students read nine or ten books?

How many students read more than six books?

Grade 2 Math: **PA Core Math Standards** in Unit 4

CC.2.4.2.A.4: Represent and interpret data using line plots, picture graphs, and bar graphs.

-- **KEY MATH VOCABULARY** --

Data: Information gathered by observation, questioning, or measurement, usually shown with numbers.

Survey: A list of questions asked of a sample of people to determine the characteristics of a group.

-- **HOW YOU CAN HELP AT HOME** --

- Take a survey of family members or friends on their favorite food, color, activity, etc., and make a tally chart to represent the data.
- Sort blocks, candy, toy cars, etc., by color and have your child record the data in a bar graph. (Parents should ask questions about the data in the graph).
- Look at different bar graphs, tally charts, pictographs, and line plots in the newspaper, magazines, on cellphone apps, etc. and have children talk about what the data is showing. Compare the quantities within the graph.
- Next time you are driving, have your child record the number of cars, trucks, SUVs, motorcycles, they see driving on the road.