

Organizing and Sharing Data

Information

Organizing data into categories.
 * Not wearing a solid shirt

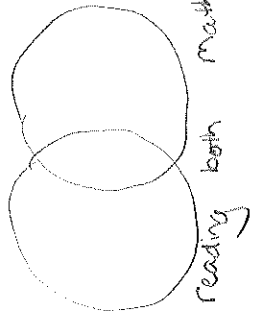


* Each student puts a dot on chart, use their data for these 3 areas.
 Wearing a solid shirt

Solid	Striped	Picture
0	0	0

* Tally Chart
 What type of shirt are you wearing?

Solid	Striped	Picture	?
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(5. put dots on chart. Change topics to match interest of class.)
 Mathematical Standards and Practices

We will...
 Understand and draw picture graphs, bar graphs and line plots.
 explain the data we have collected and organized.

tell time to the quarter hour with precision

45
 12
 10
 30

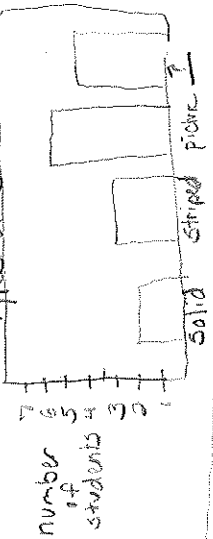
Organizing data in graphs

* Picture Graph

Solid	Striped	Picture	...
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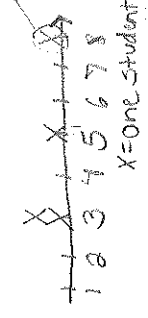
X = 1 student

* Bar Graph



Line Plot

How many letters in your first name?



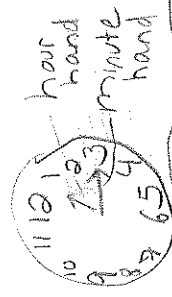
- maximum highest value
- minimum lowest value
- range maximum - minimum
- mode number that occurs the most

How many letters in your first name?

Time Schedule

Recess	10:00am
PE	10:15am
Lunch	11:30am

3:30pm
 analog clock
 digital clock



What time is it?
 It is 1:15

- 1:00
- 1:15 15 minutes after 1 past
- 1:30 half past
- 1:45 a quarter till

Inquiry what we want to learn about showing data on graphs

What we know about showing data on graphs

Grade 2 Investigating + Crossm

Unit 4 : Data Analysis

UNIT PLANNING TOOL • Draw a picture graph!

Standards: a bar graph with up to 4 categories
 • Solve put-together, take apart and compare problems
 • Tell and write time to the quarter hour

1) Make sense of problems...
 2) Construct viable arguments...
 3) Attend to precision.

Key Concepts

- sorting and classifying data
- representing and describing data
- carrying out a data investigation

- telling time to the quarter hour

Visual Models of Concepts / Graphs

Organizing data

Stripes, Solid, Pdots...

Venn Diagram

Tally Chart

Picture graph

Bar Graph

* = Data comes from "shirt" class data discussion

Algorithms/Diagrams/Graphs

Line Plot

How many letters in your first name?

1 2 3 4 5 6 7 8 9

x = one student

maximum (highest value)
 minimum (lowest value)
 range (maximum - minimum)
 mode (# that occurs the most)

Time Schedule

0:00 0:15 0:30 0:45

1:00 1:15 1:30 1:45

1:00 1:15 1:30 1:45

Connections (Real World Applications)

- lunch count
- drinks for Thanksgiving dinner (Emily tallying people's responses)
- knowing when it's recess, lunch, art...
- sorting collections of cards
- taking surveys to collect information

The maximum is ____.

The mode is ____.

the range is ____ to ____.

The mode is ____.

The outlier is ____.

Our graph/data shows ____.

Language Functions/Structures

More/fewer students like ____ than ____.

Most/few students chose ____.

What's your favorite ____?

We used ____ to organize our data.

What time is it?
 It is ____.

I am wearing a ____ shirt.
 I am not wearing a ____ shirt.
 ____ students are wearing ____.
 More students are wearing ____ than ____.

Category

data

survey

rule

representation

attribute

Venn Diagram

Vocabulary

mode

outlier

line plot

maximum

minimum