## Lesson 1.3: Data

| Task | Page(s) | Learning Target |
| :---: | :---: | :--- |
| $\mathbf{1}$ | $\mathbf{2}$ | I can describe data tables and graphs. |
| $\mathbf{2}$ | $\mathbf{3}$ | I can create a data table and graph that follows a constant scale. |

Task 1 Learning Target: I can describe data tables and graphs.

Watch the video link:
https://www.khanacademy.org/math/statistics-probability/displaying-describing-data/more-on-data-displays/v/misleading-line-graphs
A. Data Table: a chart that organizes data
B. Graph: a picture shat shows data

1. Bar graph: shows a comparison
2. Line graph: shows change over time; time will always go on the $x$ axis.
C. Constant Scale: from the beginning of the graph to the end
3. the spacing between numbers is the same
4. the numbers follow the same counting pattern (counting by $1 \mathrm{~s}, 5 \mathrm{~s}$ or 10 s .....................)

Not a constant scale:
The spacing between numbers is the same. The student started skipping 2 boxes...and then continued to skip 2.
The numbers do not follow the same counting pattern (counting by 5's... but then counts by 1 's).

Plant Growth Over Time


Not a constant scale:
The spacing between numbers is not the same. The student started skipping 1 box...but then skipped 2

The numbers follow the same counting pattern (counting by 1 's).

In the graph above:

1. The graph title is: $\qquad$
2a. The $x$ axis label is: $\qquad$
2 b . The $\mathbf{x}$ axis "unit of measure" is:
3a. The $y$ axis label is: $\qquad$
3b. The $y$ axis "unit of measure" is: $\qquad$
*If you are unsure of what a "unit of measure" is, see the following:
https://www.mathsisfun.com/measure/unit.html

Task 2 Learning Target: I can create a data table and graph that follows a constant scale.

1. Read over the information about a young girl named Sarah in the paragraph below:

At age 1, Sarah was 75 cm tall.
By the time she turned 2, Sarah had grown by 10 cm .
By age 3 , she had grown another 10 cm .
When she turned 4 , Sarah was exactly 100 cm tall.
A. Use pencil to make a data table to organize the information.
B. Use pencil to create a graph that shows Sarah's change in height.
C. Use "Graph Checklist" to assess your graph:


