

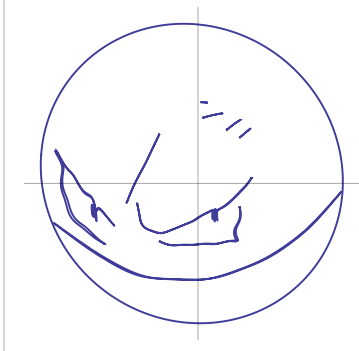
# MATH:1260 Pokémath

## The Mathematics of Pokémon Go<sup>®</sup>

Week 5 Wednesday, Spring 24

Popular curve:

Voltorb-like curve



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## Plan for Today

- Communicating math
- Different graphs for different situations

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## Class Reminders

- Thursday discussion will be work time.
  - Chance for extra credit!
- Project 1, Stage 2 due tonight at midnight.
- Project 1, Stage 3 due Wednesday Feb 21 at midnight.

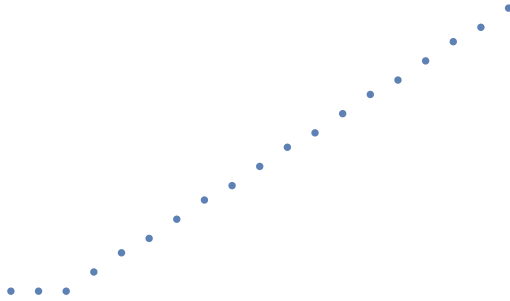
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## Notation Debrief

- Communication! How can you be sure your reader knows your notation?
- Brief, easy to write, simple, legible.
- Unique, can't be confused for something else, unambiguous.
- Visually reminds the reader of the meaning.

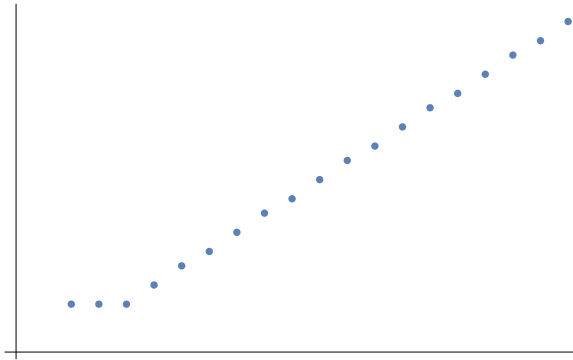
## Strategies for Visualization

What does this graph represent?



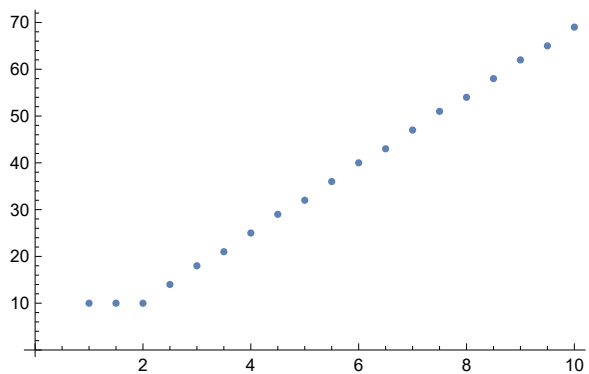
## Strategies for Visualization

How about this one?



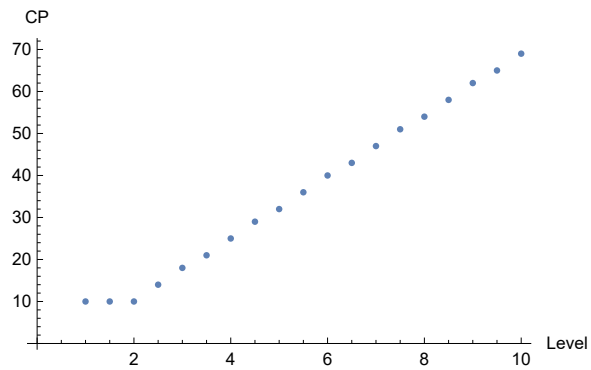
## Strategies for Visualization

Now?



## Strategies for Visualization

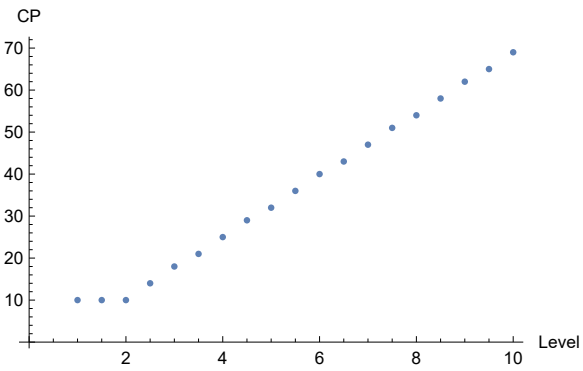
We're getting somewhere!



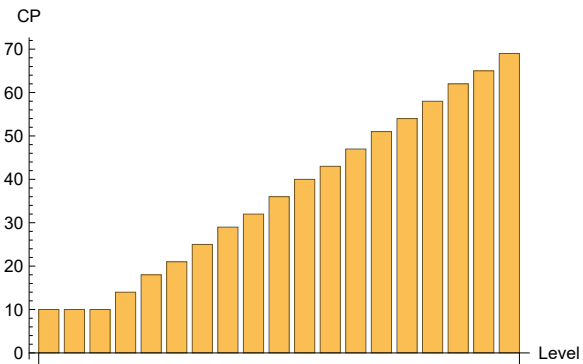
This graph may be “good enough” but what else could we add? To the graph? To a paragraph describing the graph?

## Many Types of Graphs (Pros? Cons?)

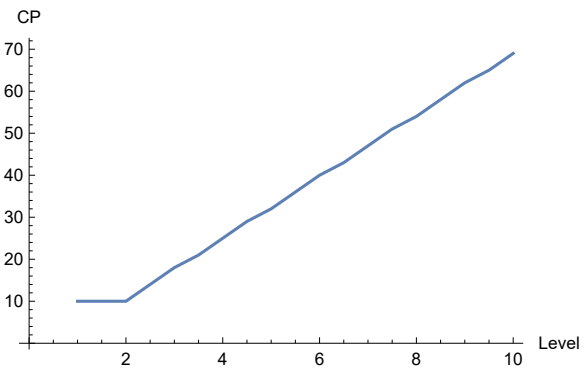
### Scatter Plot



### Bar Graph

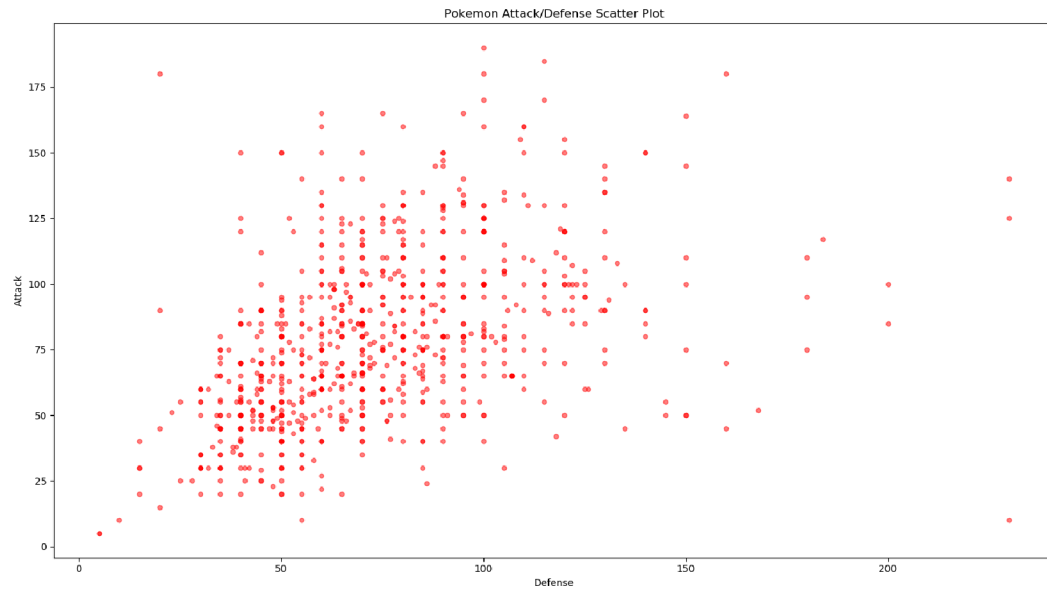


### Line Graph

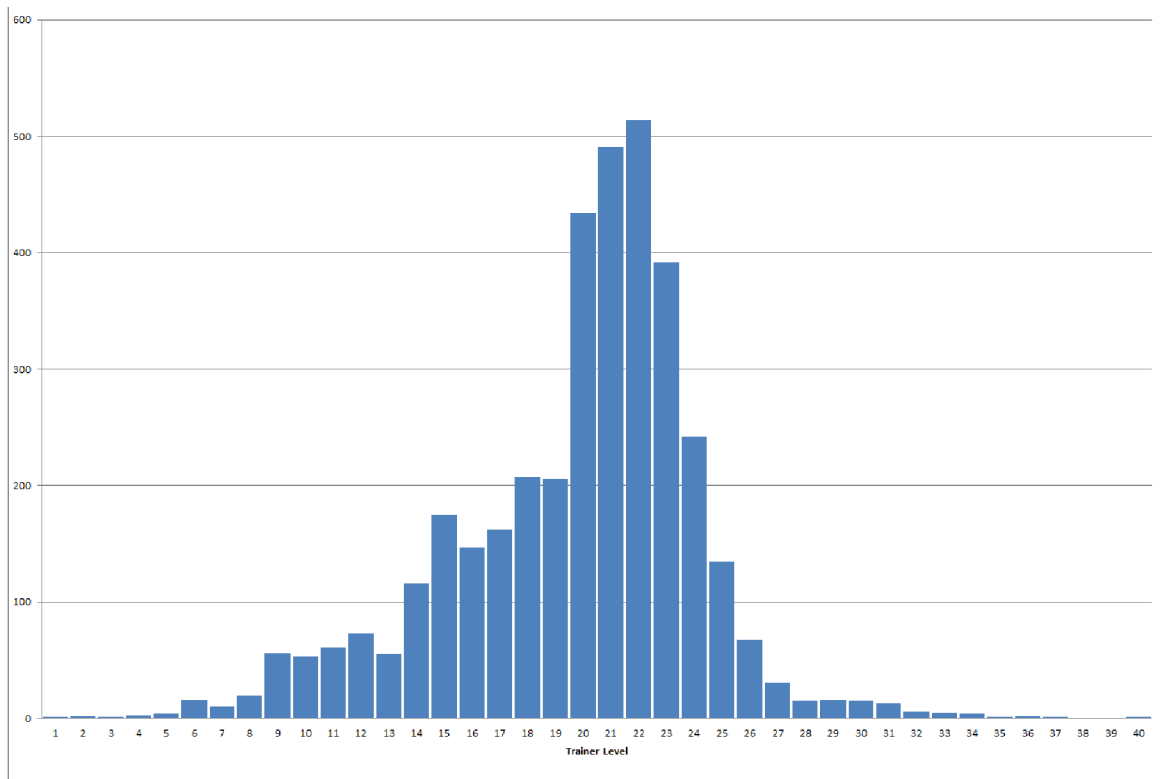




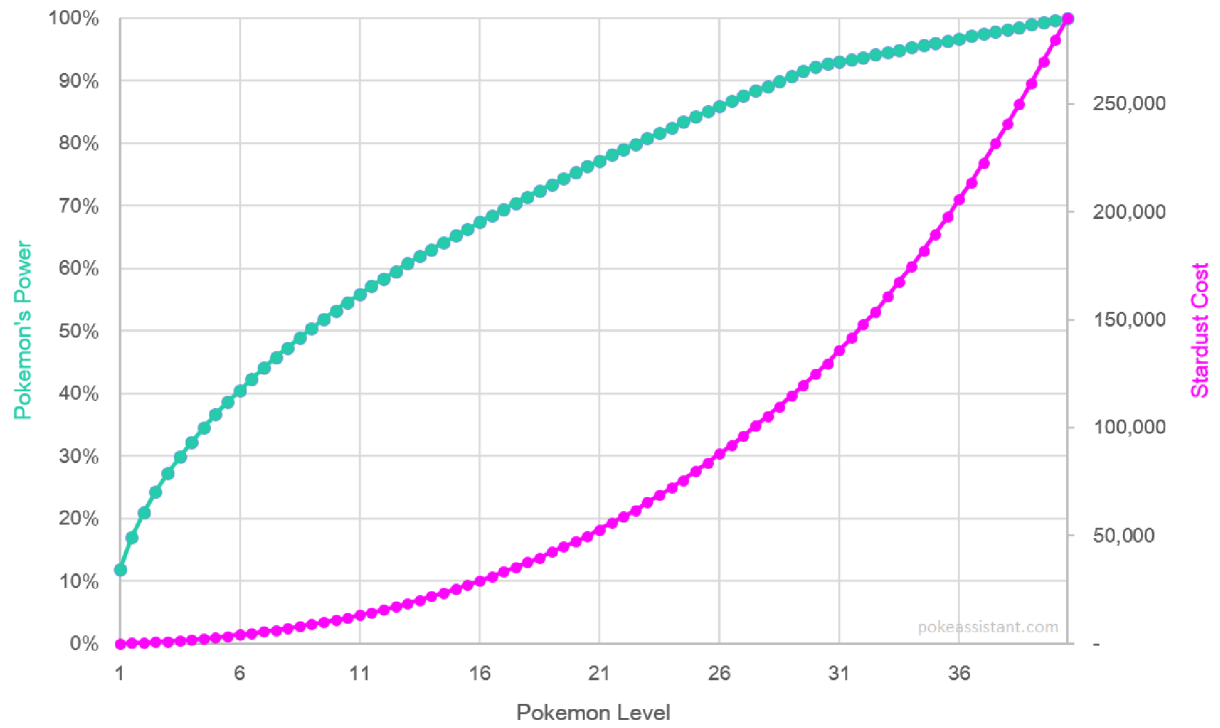
## Good Examples (Top Hat)



## Good Examples



## Good Examples



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## Some Definitions

**Discrete** Graph - A graph is said to be discrete if it shows **distinct** and **separate** data.

Examples?

**Continuous** Graph - A graph is said to be continuous if it shows the data points **connected along a line**, even if no specific data was gathered at every individual point on the line.

Examples?

Which one is best for your Research Project?

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## Venn Diagrams

We need the same detail with Venn Diagrams:

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## Venn Diagrams

Be careful when choosing your sets for your Venn Diagram! Make sure your diagram actually communicates something!