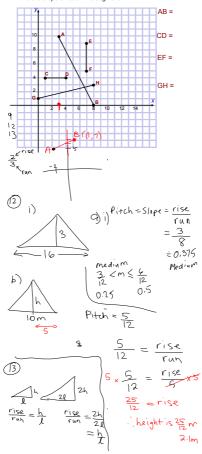
1. Find the slope of each line segment



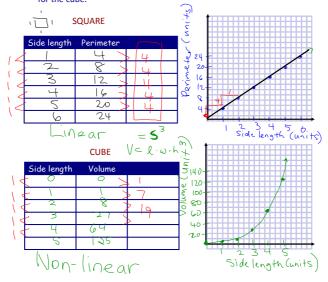
## 4.2 Slope - Day 2

## Investigate!



- Use cube-a-links to help you find the relationship between
  A square's side length and its perimeter.
  A cube's side length and its volume.

- Plot the data for each relationship and determine whether they are linear or non-linear.
- d) Look for a pattern in the values of the dependent variable for the square. Investigate whether the same pattern holds true for the cube.



## 4.2 Slope as a Rate of Change

Rate of Change: the change in one variable relative to the change in another.

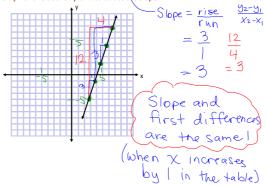
L> \* Slope, with units

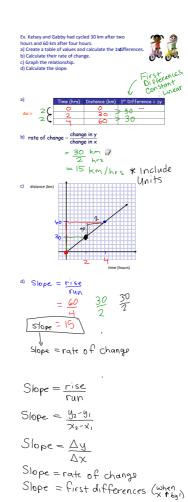
<u>First Difference</u>: the difference between two consecutive y-values in a table in which the differences between the x-values is constant. For example:



The 1st differences are What does thattell you about the graph? Linear

Graph this relationship and calculate the slope.





## Rate of Change = Slope

Homework: page 267 #C1, 2-5, 8b, 12 page 275 #C1, C2, 2 page 286 #13

