

## Notes - linear relationships

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### **What does it mean for a relationship to be linear?**

- There must be two parties to any relationship (more can be cumbersome)
- This relationship must be definable
- The rate of change must be constant
- The relationship has a graph which is a line

### Other, subordinate, qualities

- Can be written as an equation in  $y = mx + b$  form
- These equations are *indeterminate*
- A linear relationship may or not be a function
- Easily interpolated/extrapolated

### Examples of linear relationships

- Hourly wages
- Movie theater receipts
- Celsius/Fahrenheit temperature conversion
- Others?