

# Printout

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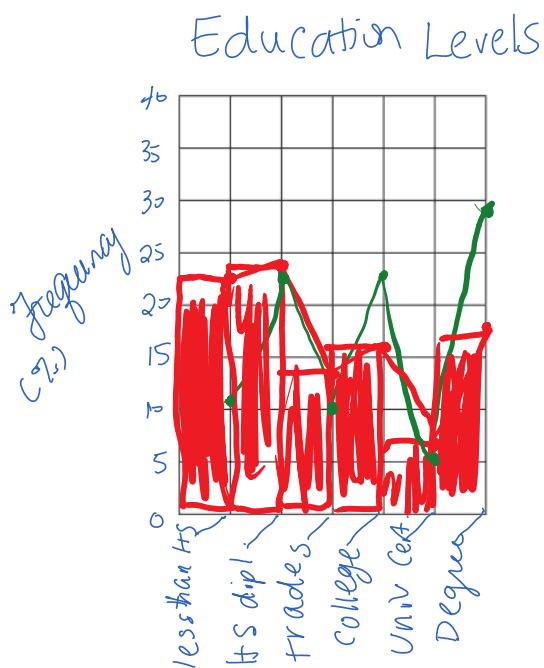
## 5.2 Frequency Tables, Histograms, and Frequency Polygons

- Frequency Distribution
  - A set of intervals (table or graph), usually of equal width, into which raw data is organized
  - Each interval is associated with a frequency that indicates the number of measurements in an interval.
  - Histogram
    - The graph of a frequency distribution, in which equal intervals of values are marked on a horizontal axis and the frequencies associated with these intervals are indicated by the areas of the rectangles drawn for these intervals
    - The rectangles are touching each other (and potentially the vertical axis)
  - Frequency Polygon
    - The graph of a frequency distribution, produced by joining the midpoints of the intervals using straight lines

### 5.2 Example

Melody is comparing education levels of her generation with the education levels of her parents' generation. She obtained the data in the table below. Draw a frequency polygon for both to compare. Comment on the results.

Level of Education	People 25-34 Years Old (%)	People 55 to 64 Years Old (%)
Less than high school	11	23
High School Diploma	23	24
Trades Certificate	10	13
College Diploma	23	16
University certificate or diploma	5	6
University Degree	29	18



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• current generation

• parents' generation.

Differences

→ parents gen declines  
 → higher level education  
 → current gen - more degrees

→ parents' gen  
 more people w/ less than HS.