

Section 5.2: Describing Data with Graphs

Thursday, October 26, 2023 4:54 PM

graphs are a visual way to summarize a data set

for data from a qualitative variable

can use

univariate data



- pie chart
- bar chart

- pictograph - use a picture or pictures to show relative size of categories

(more in section 5.4)

Section 5.2: cont'd 2023/10/27

for quantitative data

univariate data



- pie charts
- bar charts

- histograms (section 5.3)

for bivariate data, use

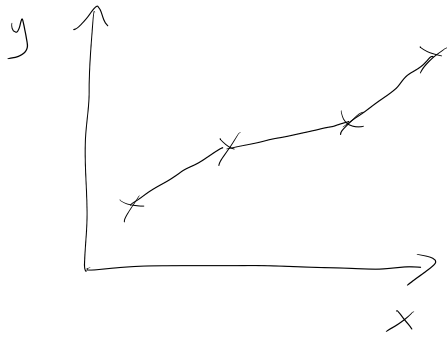
- line graph
- scatterplot

y ↑



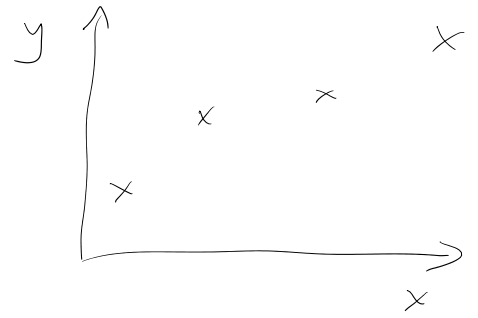
y ↑

x



line graph

- lines join points
to guide the eye



scatter plot

just points

- though you can also
include the "best fit"
line (iff best fit
is appropriate!)

note: in this course, I will not ask
you to generate graphs. I will ask
you to interpret them.