

Midterm Review

Categorical vs Quantitative

Categorical variables are those whose data is in the form of a category.
Quantitative variables are those whose data is measured with a numerical value.

Graphical Displays (1-100)

Categorical - bar graphs, pie chart

Quantitative - dot plot, stem & leaf, histogram, time plot, boxplot



Describing Quantitative 1 Variable Distributions

5 S's

- Context** - State the who and what of the question
- Shape** - unimodal, bimodal, skewed left, skewed right, symmetric, outliers
- Center** - mean, median, mode
- Spread** - range, IQR, standard deviation, variance
- Stability** - consistent, variable

Shape of a Distribution & Basic Summary Statistics



- Quartiles** - divides a group of data into four equal parts. The value of the quartile is the value of the data at that point.
- Median** - divides a group of data into two equal parts. The value of the median is the value of the data at that point.

Normal Curve / Distribution

Z-score = $\frac{x - \bar{x}}{s}$ = the number of s.d. from the mean



mean & value is **symmetric**

(Z-score is useful when comparing 2 variables from diff. distributions)



Standard Normal Curve (mean = 0, s.d. = 1)
Z-score = $\frac{x - \bar{x}}{s}$

Scatterplots (1-100)

Comparing 2 quantitative variables

Regression Line = $y = a + bx$ (in context)

- a** = y-intercept
- b** = slope
- r** = correlation coefficient
- s** = standard deviation of residuals
- t** = t-statistic
- p** = p-value
- df** = degrees of freedom
- SE** = standard error
- CI** = confidence interval
- RR** = risk ratio
- OR** = odds ratio
- HR** = hazard ratio
- AR** = attributable risk
- PI** = population interval
- CI** = confidence interval
- SE** = standard error
- df** = degrees of freedom
- t** = t-statistic
- p** = p-value
- RR** = risk ratio
- OR** = odds ratio
- HR** = hazard ratio
- AR** = attributable risk
- PI** = population interval

r = correlation coefficient: how strong the linear relationship is & the direction

- r = 1** = perfect positive correlation
- r = -1** = perfect negative correlation
- r = 0** = no correlation
- r = 0.5** = moderate positive correlation
- r = -0.5** = moderate negative correlation
- r = 0.2** = weak positive correlation
- r = -0.2** = weak negative correlation
- r = 0.8** = strong positive correlation
- r = -0.8** = strong negative correlation
- r = 0.9** = very strong positive correlation
- r = -0.9** = very strong negative correlation
- r = 1.0** = perfect positive correlation
- r = -1.0** = perfect negative correlation

Ap Statistics Midterm Study Guide

JG Myers



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