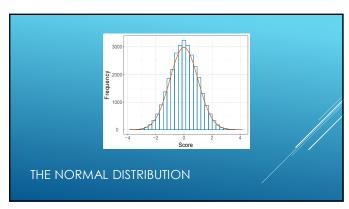
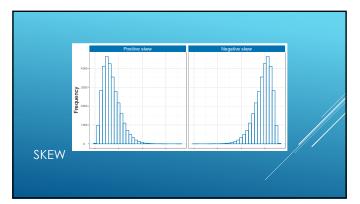
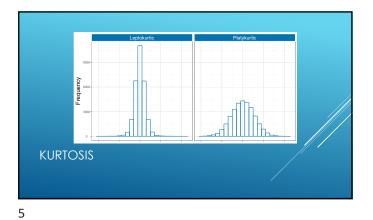


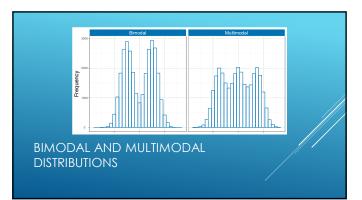
 $Outcome_i = (Model) + error_i$ 

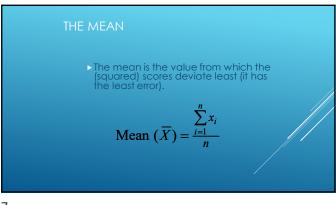
THE ONLY EQUATION YOU WILL EVER

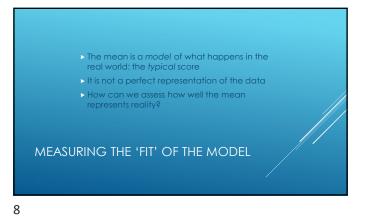


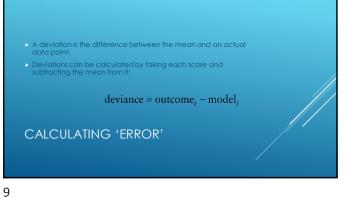


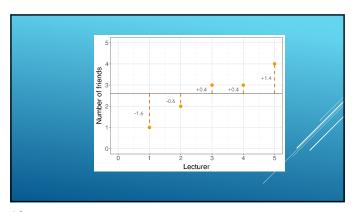


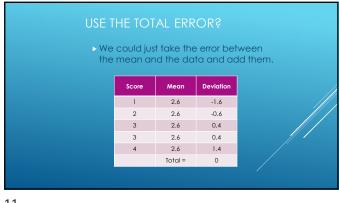


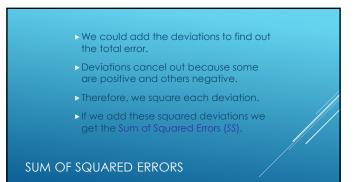


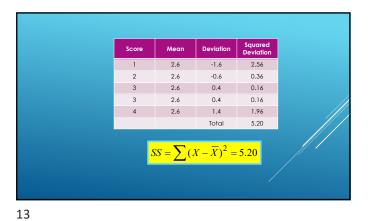


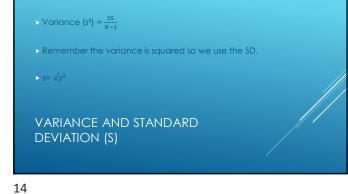


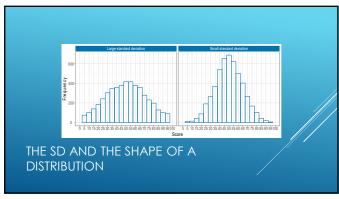


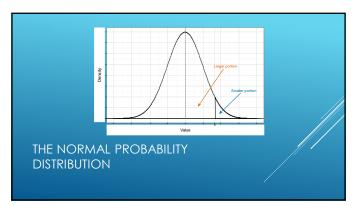


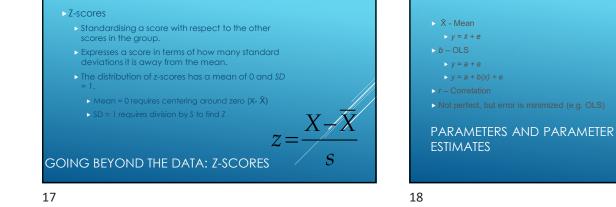


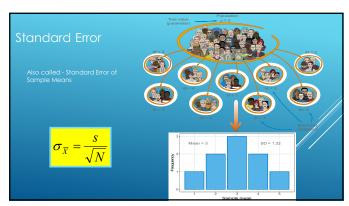


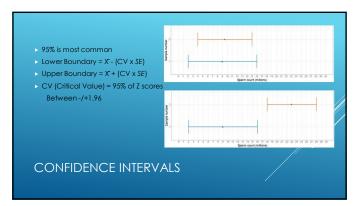


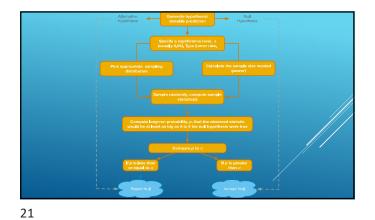


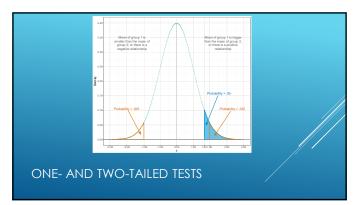


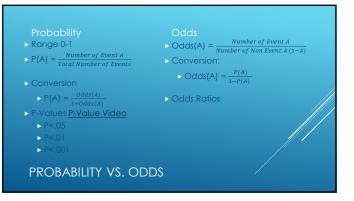


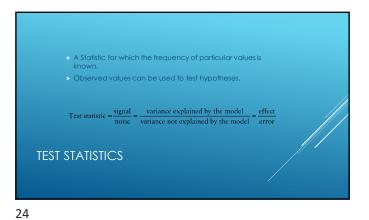












SIGNIFICANCE

SIGNIFICANCE

NOTE: TALK about Sample SIZE AND STATISTICAL

## 25

Type I error

## 26

> An effect size is a standardized measure of the size of an effect:

Occurs when we believe that there is a genuine effect in our population, when in fact there isn't.

Occurs when we believe that there is no effect in the population when, in reality, there is.
The probability is the β-level (often 0.2)

> The probability is the *a*-level (usually 0.05)

TYPE I AND TYPE II ERRORS

- Standardized = comparable across studies
- ▶ Not (as) reliant on the sample size
- Allows people to objectively evaluate the size of observed effect.

EFFECT SIZES

27

## > There are several effect size measures that can be used:

> Pearson's *r* is a good intuitive measure

- > Pearson's r

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- ▶ Cohen's d

> Odds Ratio/Risk rates

EFFECT SIZE MEASURES

