

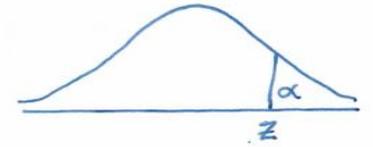
Hypothesis Testing

Traditional Test

Compares z or t-scores

1. Write hypotheses, identify claim
2. Find Critical Value (CV), use α
3. Find Test Statistic (TS), use sample
4. If $TS < CV$, do not reject H_0
If $TS > CV$, reject H_0

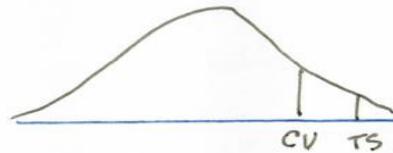
Test Statistic



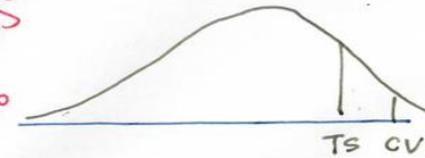
Critical Value

$$z = \frac{\bar{x} - \mu}{s/\sqrt{n}}$$

Reject H_0



Do not reject H_0



P-Value Test

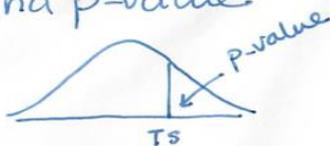
Find Test Statistic

$$z = \frac{\bar{x} - \mu}{s/\sqrt{n}}$$

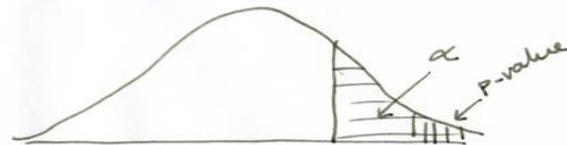
1. Write hypotheses, identify claim
2. Find Test Statistic (TS) - use sample
3. Find p-value (use TS)
4. If p-value $< \alpha$, reject H_0
If p-value $> \alpha$, do not reject H_0

Compares areas

Find p-value



Reject H_0



Do Not Reject H_0

