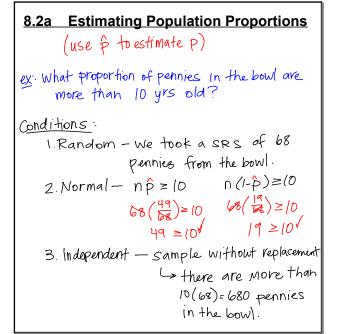
## 8.1b

Conditions to check before constructing a Confidence Interval 1. Random - (SRS) 2. Normal - want sampling distribution to be approx. Normal Proportions: np=10 and n(1-p)=10 means: population must be Normal or n=30 3. Independent - if we're sampling without replacement, 10% rule must be met. (read p.480)



Constructing a Confidence Interval For P
statistic ± (rifical value . st. dev. of the statistic
$Z^*$ $O_{\beta} = \sqrt{\frac{P(1-p)}{n}}$
$e_X: q_D / = C - level \qquad SE = \sqrt{p(1-p)}$
5% Standard error lang we we
When we use + + + + + + + + + + + + + + + + + + +
$-z^{*}$ $z^{*}=critical$ Value $z^{*}=1.645$
on Table A: look for .95
on Calc: type in inv Norm (.95)
(.95,0,1)

ex: find 2\* for 80% look at table A for 9 or type in Galc: (nvNorm (.9, 0, 1) invNorm(.9)

