

ex:

AVG AGE OF COLLEGE STUDENTS ON CAMPUS IS 18-20

ex. PERCENT THAT BELIEVE IN GHOSTS IS 20-25%

18-20 95% CONFIDENT

18.1-18.2 15% CONFIDENT

2-100 100% CONFIDENT

1.  $n=300$ ,  $x=25$

$$\hat{p} = \frac{x}{n} = \frac{25}{300} = .0833$$

2. 95%

①  $D = .95$

② VALUE =  $D + \frac{1-D}{2}$

$$= .95 + \frac{1-.95}{2}$$
$$= .95 + \frac{.05}{2}$$
$$= .95 + .025$$
$$= .975$$

③  $\text{INVNORM}(.975)$

$Z_{\alpha/2} = 1.96$

