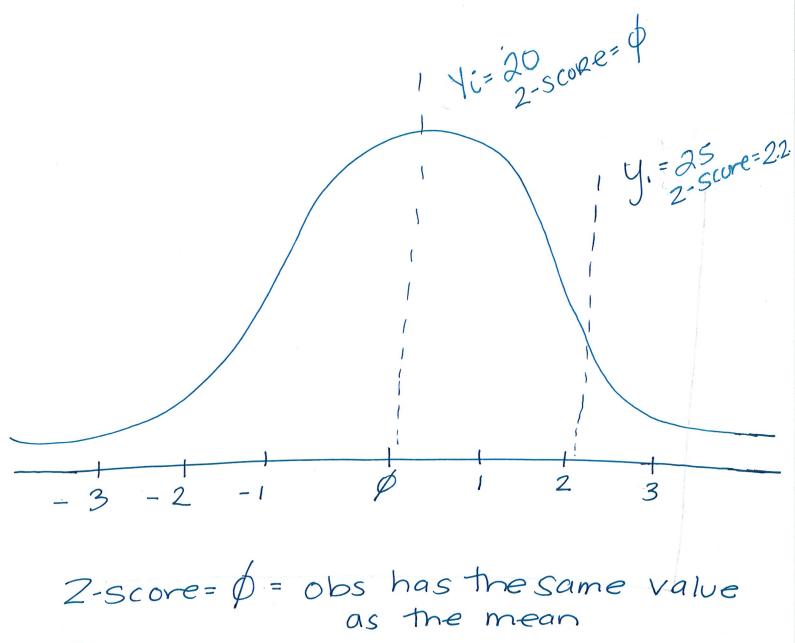
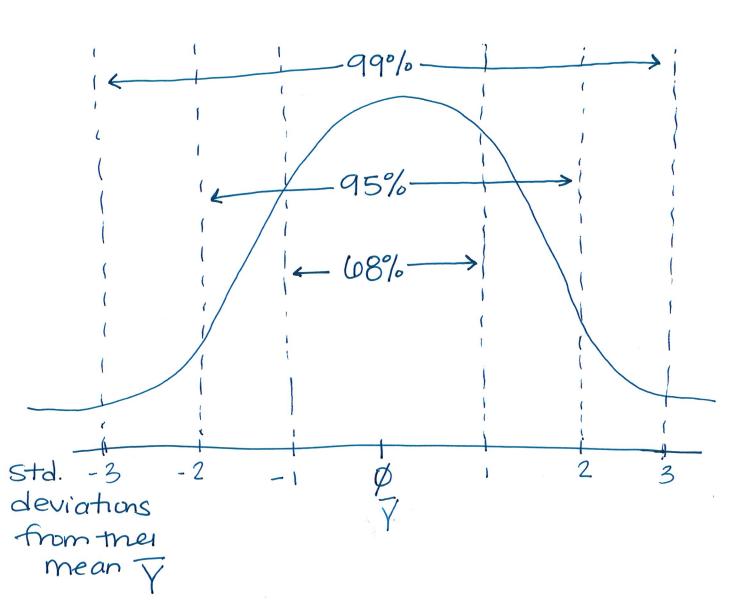
Standard Normal Distribution 10



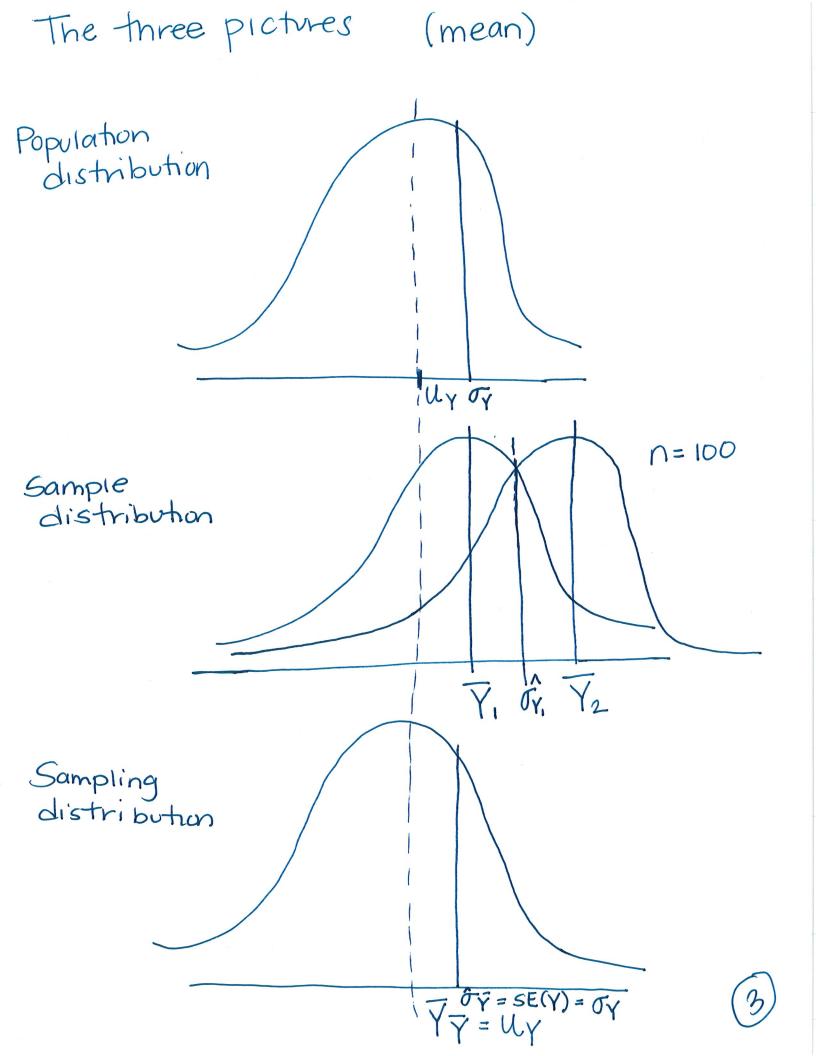
Z-score= 0 = obs has the same value as the mean

Z-score = 2.2 obs has value 2.2sta. du greater than mean

## Empirical Rule (aka "68-95-99" Rule)

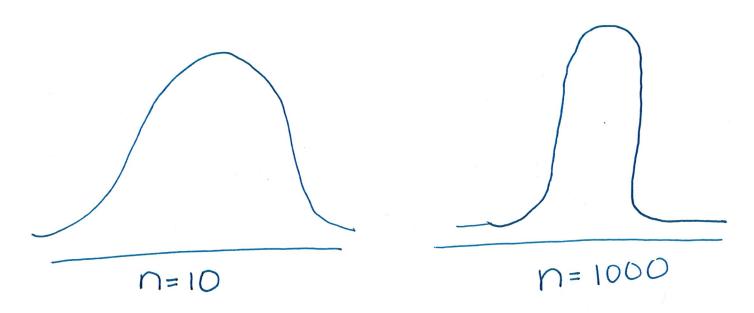


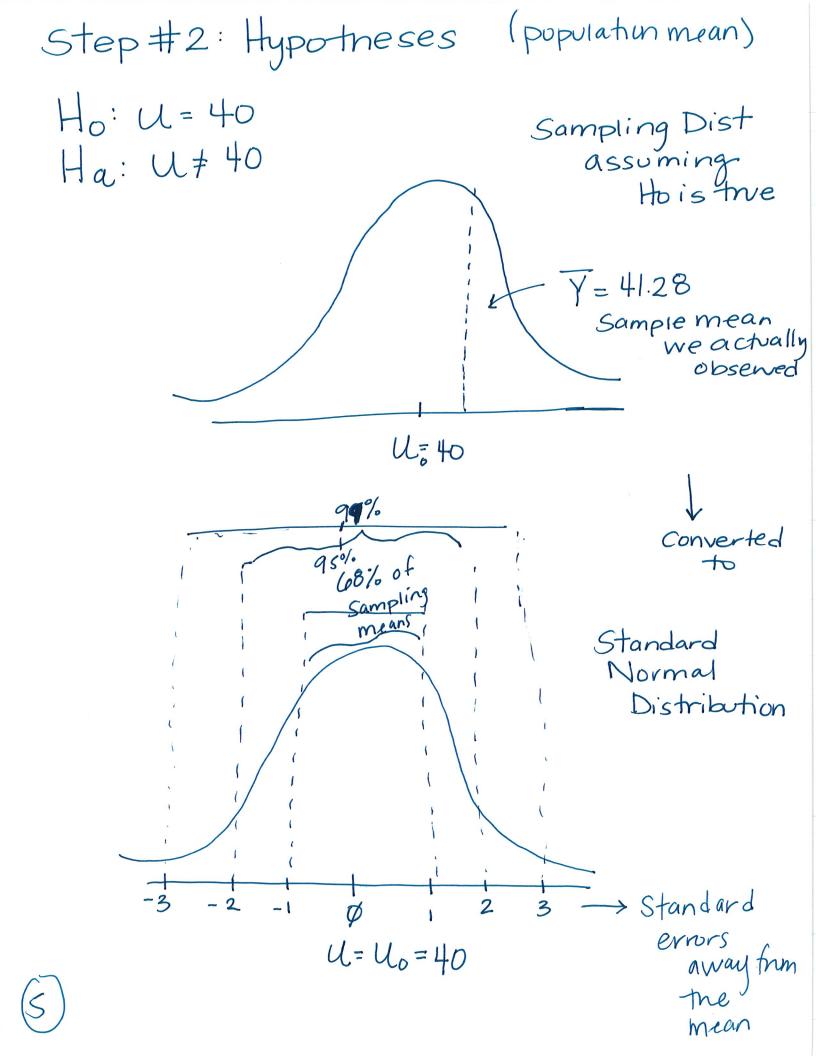




## Properties of Sample Standard Ernor

Sampling distributions





Step#4: P- Value Sampling distribution assuming Ho is true! Probeing less Prob of No=40 Y=41.28 0.0005 t>3.2892 P-val P = 0.0005

(population mean)

p-value = 0.001 two-sided 0.0005 + 0.0005 pr(obsz-t) + pr (obs>t)



Using B, to test hypothesis about (population Regression coefficient/ BI  $H_0: B_1 = \phi$ Ha: B1 + 0  $\beta_1 = -2.28$ Sampling Distribution Assuming Ho is true Ho: B1 = P B=-2.28 Converted t=-4.751 100000. =/e/d Pral= :000002 each obs=, 10 regression coefficient, Standard from Idiff Normal Samples -2 2 Pr(t>4.75)  $H_0: B_i = \emptyset$