Meetina EX: 1 +c+1 Kin + not 1 got a sample tison a pop wlation with M=0 and the sample mean, T, = -3 and SE = 1.5 (SE = 24) What can you tell me about My sample? B,5,X meas 75Dis/orge we berg About 95% 15 this working : * * * you are given a sample - you calculate J, sÉ - YIN KNIW M _calculate a t-statistic Ls = Y-M M ~ 7 Sy 57 ~ 5D y~ y: Hint $Z_{i} = \gamma_{i} - \gamma$ t stat = mpasure of hou far your sample is fron +m Aside why te-distin? -) because we are approximating the true, population standard evico With what probabilly do youthint we would classify a sample mean as being l'extreme!"? Often See 7 this is P < 0.05) (015119 us General stops if hypothesis testing · Construct a Null hypithisis Es. set our M value, M=0 . choose a test statistic that measures deviation from the Null E,5. E-statistic · calculate that stat and determine its prob · It brop is now > mall (<0.05) we reject our N411 Errics when hypothesis +25+i15 Null hypothesis Ho Alternative hypothesis HA TEST RESUITS reject to I Reject to Type I (Q) Ho Type II False Type I = false conviction false positives Type I = fal se negatives Reciprical of type II, error is called Power B power (1-B) = ES Tr X Comparing + wo samples