Example 4: Recently, a national airline claimed that 'at a minimum, 92% of our flights are on-time.' To test this claim, a statistician randomly selected 200 of this airline's flights, observing if each flight was 'on-time' or 'not'. 181 of the 200 flights arrived to their destination on-time. Conduct the appropriate test regulating the probability of committing a Type I error to be 5%, and base the decision on the P-value.

Ho:
$$p. 0.92$$

Ha: $p. 0.92$
 $p = 0.92$
 $p = 181 = 0.905$
 $p = 181$

P-velue = 0.217 1280664

If p=0.92, prob of a sample prop = 0.905 is 0.217 (quite likely)
we did Not see a sample that for from what we expected. Not
much reason to guestion that =0 FRth.

Based on this sample (a) Sign level of 5%) it appears prop. of dights on time is Not Sig less than 0.92.

Software Note propertiest uses X of 1 instead of Z ~N (0,1)

so The test stat given X of 1 = 0.6/141 => \[\text{VO.6/141} = | \frac{7}{2} c/2 | \]

\[\text{\$\frac{2}{3}} \]
\[\text{\$\frac{1}{3}} \]

but products still The same!