

4) Ho = U=100

Speeds are 100.5, 101.3, 99.5, 98.6, 104.0, 103.1, 100.5, 998,986,1024

M=100.83

 $\sigma = \left[ \pm (\chi - \mu)^2 \right]$ 

 $(x; -u)^{2} = 0.1089 + 0.2209 + 1.7689 + 49729 +$ 10.0489 + 5.1529+0-1089+1.0609+ 4.9729 +2.4649

 $\sigma = \begin{vmatrix} 30.881 = 30881 = 1.7573 & V = 10 - 1 = 9 \\ \hline 19 & \alpha \\ A + 95\% & \alpha = 0.05 \Rightarrow \frac{\alpha}{2} = 0.025 \\ \hline \end{cases}$ 

2 - tn-1, d/2 5 ≤ M ≤ 2+ tn-1, d/2 1/n

100.83-2-282.1.7573 ME 100.83 + 2.262.1.7573

99.5 £ M ≤ 102.1

99.5 2 M 2 102.

MITWIF & SU'M TW TF

At 95% of confidence the Special 14 15 16 17 18

beltweet 99.5 to 102.1 mph

25 Thursday

FEBRUARY

Week 9

$$\overline{\lambda} = 125$$
 $5 = 14$ 

$$d = 25 
d = 24 - 1 = 23$$

6) Null hypothesis Ho M=13Alternate Hypothesis H,  $M \neq 13$ Given  $\overline{x} = 15.5$ 

Given  $\widehat{X} = 15.5$   $U_0 = 13$   $\eta = 169$ 

0=13

z - 51-14 0/Vn

15.5 - 13 = 2.15  $13/\sqrt{169}$ 

z > 1.96 Null hypothesis rejected

MADCH 2016

M T W T F S So M T W T F S Su 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

**21 22 23 24 25 26** 27 28 29 30 31