

04/26/2019

Quiz

1. $H_0: \mu = 19.551$

$H_a: \mu > 19.551$

b) $H_0: \mu = 19.551$

$H_a: \mu < 19.551$

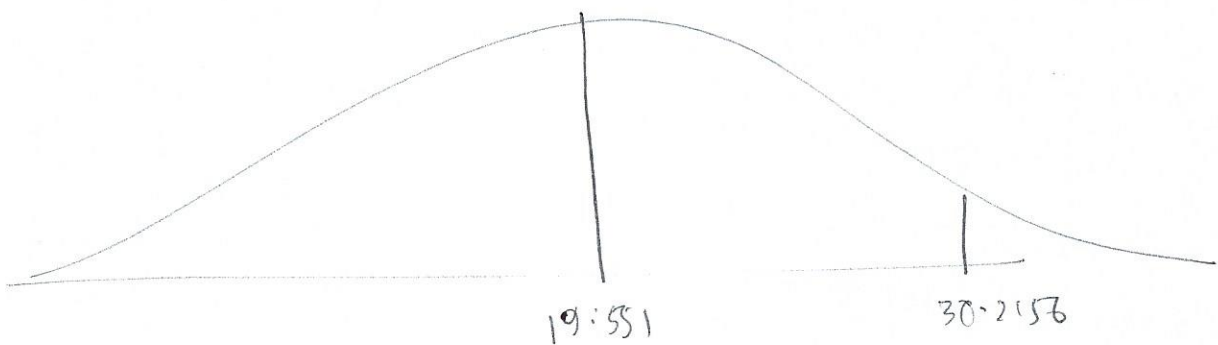
c) $H_0: \mu = 19.551$

$H_a: \mu \neq 19.551$

2. $n = 51$

$\bar{x} = 30.2156863$

$s = 9.63600275$



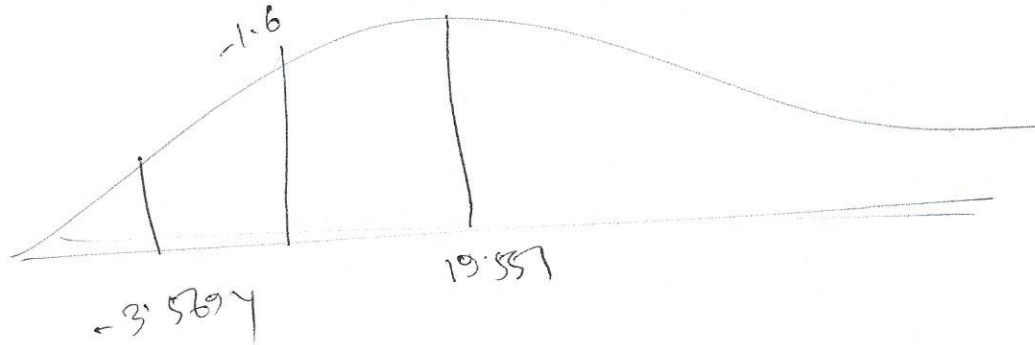
$$t = \frac{\bar{x} - \mu}{s/\sqrt{n}} = \frac{30.2156 - 19.551}{9.63600275/\sqrt{51}}$$

$$= 7.9038 > t\text{-table } (1.6)$$

so, reject the H_0 .

evidence that winning S.B team's score > 19.551 pt/81
game

$$b. t = \frac{\bar{x} - \mu}{s/\sqrt{n}} = -3.569423$$



$$-3.5694 < -1.6$$

Reject H_0 . There is enough evidence that losing
superball team scores less than 19.551 pts.

$$c. H_0 = 19.551$$

$$H_a \neq 19.551$$

$$\bar{x} = 23.1373$$

$$s = 10.9879$$

$$n = 102$$

$$t\text{-table} = -1.984$$

$$\frac{\bar{x} - \mu}{s/\sqrt{n}} = \frac{23.1373 - 19.551}{10.9879/\sqrt{102}} = 4.0 \dots$$

