

Stats # 11

588 # 6.2

- Since the two battery brands are independent from each other their results are unconnected.
- the brand of battery; possible values are ultracell or energizer.

598 # 6.28

- False
- Most cornerbacks have a speed below the median wide receiver speed.
- True. It has a higher maximum, lower minimum, and larger distance between the first and third quartiles.
- (as above)
- False.
- He's the slowest player entered. (4.8)
- Trae Waynes, Michigan State.
- It pulls the data left/down and increases the standard deviation

608 # 6.44

$$\begin{aligned} \text{step 2} \rightarrow H_0 &= \mu_1 \geq \mu_2 & n_1 &= 30 & \sigma_1 &= \sim 2 \\ H_a &= \mu_1 < \mu_2 & \mu_1 &= \text{affected} & \bar{x}_1 &= 18.54 \\ & & \mu_2 &= \text{healthy} & \bar{x}_2 &= 37.36 \end{aligned}$$

$$\text{step 3} \rightarrow T^* = \frac{(\bar{x}_1 - \bar{x}_2) - (\mu_1 - \mu_2)}{\sqrt{\frac{\sigma_1^2}{n_1} + \frac{\sigma_2^2}{n_2}}}$$

$$\sigma = .01$$

$$df = 43.6$$

$$\sqrt{\frac{2^2}{30} + \frac{1^2}{27}}$$

$$= 45.5471^2 \text{ seems large...}$$

$$p^* = 0$$

step 4 \rightarrow Reject H_0

step 5 \rightarrow There is sufficient evidence to support that people with aphasia have worse facial recall than those without on average in the population.

