Untitled.notebook March 10, 2014

Ho:
$$M_H = M_W$$
 $t = \frac{35.71 - 33.83}{44}$

Hai $M_H > M_W$ $df = 45.8$

Not sign. Q
 $df = 45.8$
 $df = 46$
 $df = 46$

$$\frac{35.71 - 33.83}{1-875} \pm 7 + \frac{34}{14.56^2} + \frac{34}{13.56^2}$$

e)
$$n=24$$
 $X_{3}=1.875$
 $S_{3}=4.812$
 $(.19,3.56)$

& much less var. When pained

9)
$$M_d = \text{mean diff. in ages } (\underline{\text{husb.-wife}})$$
 $H_0: M_d = 0$
 $H_a: M_d > 0$
 $\frac{1.875}{4.812} = 1.91$

$$\begin{array}{c}
23-5 \\
23-7 \\
23-8
\end{array}$$

$$\begin{array}{c}
P_r(t > 1.91) = .0344 \\
Sign 0 \\
Sign 0 \\
Sign 0 \\
Sign 0
\end{array}$$

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23-1) Matched Pairs

a)
$$M_H = \text{mean age of husb.}$$
 $M_W = 11$
 $M_W = 11$

$$t = \frac{35.71 - 33.83}{\sqrt{14.56^2 + 13.56^2}}$$

$$(4.938) = (4.938) = (4.943) = (4.938) = (4.938) = (4.938) = (4.943) = (4.938) = (4.9$$

e)
$$\frac{\text{mean diff.}}{1.875 \pm 1.714} = \frac{4.812}{\sqrt{24}}$$

$$H_{a}M_{d} = 0$$
 $t = \frac{1.875}{4.819} = 1.91$

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$$H_{0}:M_{H}=M_{W}$$

$$H_{a}:M_{H}>M_{W}$$

$$(35.71-33.83)+(4)$$

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$$\begin{array}{c} \text{(19)} & \text{(19)} \\ \text{(19)} & \text{(3.56)} \end{array}$$

9)
$$M_d = \text{mean diff in couples-ages}$$
 blacking

 $M_0: M_i = 0$

Ho:
$$M_d = 0$$

Ha: $M_d > 0$
 $t = \frac{1.875}{4.813/24} = 1.91$
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