

HMWK 4

- 1 (a) At the 95% level, 95% of the calculated confidence intervals fall between -0.288 and -0.524.
(b) (-0.524, -0.288)
- *2 (a) The data appears to fall under a normal distribution.
(b) upper bound = -26.9 and lower bound = -50.3
*(c) A 95% upper bound would be the 95% of the confidence intervals computed at the 95% confidence level contain the proposed mean.
(d) Pairing when the average difference = 0 does not make any sense because then the age at onset and the age at diagnosis would be the same.
(e) The above is outside of the bounds, so we reject the null that the average diagnosis occurs more than 25 months after the onset of symptoms.
- 3
- 4 (a) Both the energizer and ultracell data has been observed to be normal.
(b) Reject the null that the variances do not differ.
(c) I would not pay the extra money because the variance of the energizer batteries is too high.