1)a) Wording says "equal to", not "less" or "more." b) *H*₀: μ = 17 *H_a*: $\mu \neq 17$ c) t = -4.73d) p < 0.1%e) $p \ll \alpha$. Reject H_0 , accept H_a . f) We have strong evidence that the average number of chips is not equal to 17 chips. g) p = 0.00005362)a) Wording says "less than", left-tailed. b) *H*₀: μ = 8 *H_a*: μ < 8 c) t = -0.540d) Correct sign, should be negative because of the left-tailed test. e) 25% < *p* < 50% f) $p > \alpha$, Fail to reject H_0 , fail to accept H_a g) We do not have evidence that the average height of all trees is less than 8 feet. h) p = 0.298

3)a) We are 90% confident that the average water used by all households in NEIWD on August 11 is between 135.9 and 194.7 gallons.

b) We are 90% confident that the total water used by NEIWD on August 11 is between 1,983,000 and 2,840,000 gallons.