

Perform a one sample t-test for the following hypotheses at an alpha of .01

$H_0: \mu = 10$ vs. $H_a: \mu > 10$

Sample: 10, 9, 16, 15, 15, 12, 14

Perform a two independent sample t-test for the following hypotheses at an alpha of .05

$H_0: \mu_1 - \mu_2 = 0$ vs. $H_a: \mu_1 - \mu_2 \neq 0$

Sample 1: 3, 4, 7, 1, 5

Sample 2: 6, 3, 1, 8, 10, 8

Perform a two dependent sample t-test for the following hypotheses at an alpha of .05

$H_0: \mu_1 - \mu_2 = 0$ vs. $H_a: \mu_1 - \mu_2 \neq 0$

<u>Subject</u>	<u>X₁</u>	<u>X₂</u>
1	3	4
2	5	6
3	4	4
4	7	10
5	6	5
6	9	10
7	7	8
8	4	7
9	3	3
10	2	3