Online Homework Package Created by : Elsit and Satya Mandal		
Course ld :Math 105	Topics in Mathematics	Semester : Summer2017
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Homework No: 27	Total Points :50	Due Date:(YYYY-MM-DD) 2017-07-27

It is believed that, due to pollution, the mean weight  $\mu$  of salmon in a river is lower than last year's mean of 23 pounds. To test this concern about pollution, 46 fish were caught. The mean weight of the fish was found to be  $\underline{x}=21.1$  pounds and standard deviation s=6. Here we test  $H_0: \mu=23$   $H_A: \mu<23.$ Compute the value of the test statistics.

Answer Question-1	This is a Numerical-Answer Type Question Statistics Value =
Points	5.00

QuestionDecide if it is a Two Tail, Left Tail or Right Tail Test and compute the p-value of the collected data in Question 1.

Answer Question-2	This is a Numerical-Answer Type Question p-Value =
Points	5.00

**Question-**Refer to Question 1. What would be the lowest level of significance, percent among .1, .5, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 percent, at which you would accept that the mean weight has reduced?

Answer Question-3	This is a Numerical-Answer Type Question  Lowest Percent =
Points	5.00

Question- Refer to Question 1. At 5 percent level of significance, would accept that that the mean weight has

Answer Question-4	This is a Numerical-Answer Type Question Answer =
Points	5.00

Due to favorable weather conditions, it is beleived that the mean diameter  $\mu$  of the pumpkins in the market is higher than last years mean of 34 cm. To test, a sample of 26 pumpkins were examined. The sample mean was found to be 37 cm and the sample standard deviation was s=11 cm. Here we test  $H_0: \mu=34$   $H_A: \mu>34.$ Compute the value of the test statistics.

Answer Question-5	This is a Numerical-Answer Type Question
Question-5	Statistics Value =
Points	5.00

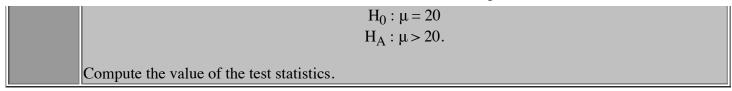
Question- Decide if it is a Two Tail, Left Tail or Right Tail Test and compute the p-value of the collected data in Question 5.

Answer Question-6	This is a Numerical-Answer Type Question p-Value =
Points	5.00

**Question-** Refer to Question 5. What would be the lowest level of significance, percent among .1, .5, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 percent, at which you would accept that the mean diameter is higher?

Answer Question-7	This is a Numerical-Answer Type Question
Question-7	Lowest Percent =
Points	5.00

<b>Question-</b>	The mean time $\mu$ taken to by a student to drive to the work is beleived to be higher than 20 minutes.
8	A sample of 31 such driving time was collected. The sample mean and standard deviation was
	found to be $\underline{\mathbf{x}} = 24$ minutes, $\mathbf{s} = 8$ minutes. Here we test



Answer Question-8	This is a Numerical-Answer Type Question
Question-o	Statistic Value =
Points	5.00

Question	Decide if it is a Two Tail, Left Tail or Right Tail Test and compute the p-value of the collected data
9	in Question 8.

Answer Question-9	This is a Numerical-Answer Type Question
	p-Value
Points	5.00

<b>Question-</b>	Refer to Question 8. What would be the lowest level of significance, percent among .1, .5, 1, 2, 3,
10	4, 5, 6, 7, 8, 9, 10 percent, at which you would accept that mean driving time is higher than 18.7
	inches?

Onestion-10	This is a Numerical-Answer Type Question  Lowest Percent =
Points	5.00

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