Online Homework Package Created by : Elsit and Satya Mandal		
Course Id :Math 105	Topics in Mathematics	Semester : Summer2017
Instructor :Satya Mandal Line No : 84895		
Homework No: 17	Total Points :50	Due Date:(YYYY-MM-DD) 2017-07-27

Question-1	A group of retailers model that the amount of dollars X that an individual will spend in christmas shopping has a normal distribution with mean μ = \$1100 and standard deviation σ = \$330. What is the 60th percentile shopping expenditure?

Answer Question-1	This is a Numerical-Answer Type Question Sixtieth percentile =
Points	5.00

Question-2	Refer to Question 1. Compute the third quartile expenditure.

Answer Question-2	This is a Numerical-Answer Type Question Q_3 =
Points	5.00

Question-3	The gas milage X per gallon of a model of (new and used) car is normally distributed with mean μ = 29 miles and a standard deviation σ = 3.1 miles. What is the eightieth percentile gas milage.

Answer Question-3	This is a Numerical-Answer Type Question eightieth percentile =
Points	5.00

Question-4	Refer to Question 3. Compute the first quartile gas milage.

Answer Question-4	This is a Numerical-Answer Type Question Q_1 =
Points	5.00

Question-5	The half-life X of a drug is is normally distributed with mean $\mu = 11$ hours and a standard deviation $\sigma = 2.9$ hours. Compute the thirtieth percentile of half-life.

Answer Question-5	This is a Numerical-Answer Type Question thirtieth percentile =
Points	5.00

Question-6	Refer to Question 5. Compute the median half-life time.

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

Question-7	The weight X of babies (of a fixed age) is normally distributed with mean $\mu = 212$ ounces and standard deviation $\sigma = 25$ ounces. Compute the ninetieth percentile weight.

Answer Question-7	This is a Numerical-Answer Type Question ninetieth percentile =
Points	5.00

Question-8	Refer to Question 7. Compute the first quartile weight.

Answer Question-8	This is a Numerical-Answer Type Question Q_1 =
Points	5.00

Question-9	The hourly wages X in an industry has a normal distribution with mean $\mu = \$40$ and standard deviation $\sigma = \$17$. What is the 93rd percentile of the hourly wage?

Answer Question-9	This is a Numerical-Answer Type Question 93rd percentile
Points	5.00

Question-10	Refer to Question 7. Compute the third quartile wage.

Answer Question-10	This is a Numerical-Answer Type Question Q_3 =
Points	5.00

Logout