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: 7	Total Points :50	Due Date:(YYYY-MM-DD) 2017-07-27

Question-1 (*Problems in this Homework Set are from Section 3.2*)

Monica works as a daycare provider. She takes a maximum of 7 babies in a day. Following is the distribution of number of babies she takes in a day

Distribution of number of babies							
number of babies	1	2	3	4	5	6	7
Probability	.06	.11	.21	.22	.25	.08	.07

What is the probability that there will be at most 4 babies on a day?

Answer Question-1	This is a Numerical-Answer Type Question P(at most 4) =
Points	5.00

Question-2 Refer to Question 1. What is the probability that there will be less than 4 babies?

Answer Question-2	This is a Numerical-Answer Type Question P(Less than 4) =
Points	5.00

Question-3 Refer to Question 1. What is the probability that there will be at least 4 babies?

Answer Question-3	This is a Numerical-Answer Type Question P(at least 4) =
Points	5.00

Question-4 Refer to Question 1. What is the probability that there will be more than 4 babies?

Answer Question-4	This is a Numerical-Answer Type Question P(more than 4) =
Points	5.00

Question-5	Following is the distribution of hourly wages (in whole dollars) earned by workers in an industry: Wage Distribution **wages in dollars** 7 8 9 10 11 12 13 14 15 16 17 18 19 20 **Probability** .03 .05 .06 .09 .11 .12 .20 .11 .09 .07 .03 .02 .01 .01 Your client works in this industry. What is the probability that his/her hourly wage is at least 13 dollars.

Answer Question-5	This is a Numerical-Answer Type Question p(at least 13) =
Points	5.00

Question-6	Refer to Question 5. What is the probability that his/her hourly wage is more than 13 dollars.

Answer Question-6	This is a Numerical-Answer Type Question P(more than 13) =
Points	5.00

Question-7	Refer to Question 5. What is the probability that his/her hourly wage is less than 13 dollars.

Answer Question-7	This is a Numerical-Answer Type Question P(less than 13) =
Points	5.00

Question-8	Refer to Question 5. What is the probability that his/her hourly wage is at most 13 dollars.

Answer Question-8	This is a Numerical-Answer Type Question P(at most 13) =

Points	5.00

Question-9	In a hospital, the following probability distribution of number of heart patients:: distribution of number of sheart patients **number of students** 4 5 6 7 8 9 10 11 **Probability** .08 .13 .17 .22 .18 .12 .06 .04 What is the probability that there will be more than 7 heart patients on a particular day?

Answer Question-9	This is a Numerical-Answer Type Question P(more than 7) =
Points	5.00

Question-10	What is the probability that there will be at most 7 heart patients on a particular day?

Answer Question-10	This is a Numerical-Answer Type Question P(at most 7) =
Points	5.00

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