Online Homework Package Created by : Elsit and Satya Mandal						
Course Id :Math 105 Topics in Mathematics Semester : Summer2017						
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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				
Question-1	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	This is a Numerical-Answer Type Question					
<b>Question-2</b>	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	This is a Numerical-Answer Type Question					
<b>Question-4</b>	P(more than 4) =					
Points	5.00					

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 0.3 0.5 0.6 0.9 11 12 20 11 0.9 0.7 0.3 0.2 0.1 0.1

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

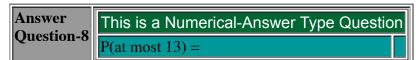
**Question-6** Refer to Question 5. What is the probability that his/her hourly wage is more than 13 dollars.

Answer Question-6	This is a Numerical-Answer Type Question					
Question-o	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	$\frac{P(less than 13) =}{5.00}$					

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



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	number of students   4   5   6   7   8   9   10   11							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					
Question-9	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				
Question 10	P(at most 7) =				
Points	5.00				

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