

<b>Online Homework Package</b> Created by : Elsit and Satya Mandal		
Course Id :Math 105	Topics in Mathematics	Semester : Summer2017
Instructor :Satya Mandal Line No : 84895		
Homework No: 8	Total Points :50	Due Date:(YYYY-MM-DD) 2017-07-27

**Question-1** *(Problems in this section are on Equally likely probability, from section 3.2)*  
 Your roll a die twice. What is the probability that the sum of the two numbers rolled is 7.

**Answer Question-1** This is a Numerical-Answer Type Question  
 Answer =

Points 5.00

**Question-2** Your roll a die twice. What is the probability that the difference of the two numbers rolled is 2 (plus or minus 2)?

**Answer Question-2** This is a Numerical-Answer Type Question  
 Answer =

Points 5.00

**Question-3** Your roll a die twice. What is the probability that both numbers rolled are less than or equal to 3?

**Answer Question-3** This is a Numerical-Answer Type Question  
 Answer =

Points 5.00

**Question-4** Five babies are born in a hospital on a day. What is the probability that there are exactly 3 boys and 2 girls? (Hint: List all the possible outcomes. Each outcome is a word of length 5, written with two letters G and B. There will be 32 possible outcomes.)

**Answer Question-4** This is a Numerical-Answer Type Question  
 Answer =

Points	5.00
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**Question-5** Toss a coin 5 times. What is the probability that there are exactly 2 Heads and 3 tails? (Hint: *Similar to Question 4.*)

<b>Answer Question-5</b>	This is a Numerical-Answer Type Question
	Answer = <input type="text"/>
Points	5.00

**Question-6** Five men and three women applied for 2 scholarships. What is the probability that both the winners will be men? (Hint: *Name the applicants as Bob, Bill, David, Jeff, Steve, Laura, Mary and Kerrie. List all the possible outcomes. List all the 28 outcomes.*)

<b>Answer Question-6</b>	This is a Numerical-Answer Type Question
	Answer = <input type="text"/>
Points	5.00

**Question-7** Five men and three women applied for 2 scholarships. What is the probability that the winners will be a man and a woman?

<b>Answer Question-7</b>	This is a Numerical-Answer Type Question
	Answer = <input type="text"/>
Points	5.00

**Question-8** Three members of your family (two parents and yourself) went a buy three cell phones. The phones come in three colors: red, blue and black. You all pick them randomly. What is the probability that all three phones will be red or blue?

<b>Answer Question-8</b>	This is a Numerical-Answer Type Question
	Answer = <input type="text"/>
Points	5.00

**Question-9** Three members of your family (two parents and yourself) went a buy three cell phones. The phones come in three colors: red, blue and black. You all pick them randomly. What is the probability that you will get a red phone?

<b>Answer Question-9</b>	<b>This is a Numerical-Answer Type Question</b> Answer = <input type="text"/>
Points	5.00

<b>Question-10</b>	You pick a card from a deck of 52 cards. What is the probability that you will pick an ACE or a KING or a Queen or a Jack.?
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<b>Answer Question-10</b>	<b>This is a Numerical-Answer Type Question</b> Answer = <input type="text"/>
Points	5.00

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