Questions

? Question 1 ② Question 2 ? Question 3

? Question 4 ? Question 5 ② Question 6 ? Question 7

Time Elapsed: Hide Time Attempt due: Mar 1 at 11:59pm 1 Minute, 18 Seconds

? Question 8

\supset	Question 1	10 pts
	Chapter 1	
	A well-known nursery rhyme starts as follows:	
	d 8 cats.	
	Each cat had 4 kittens"	
	How many kittens did the traveler meet?	
	Input your answers in the following box (Hint: input an integer)	
	Question 2	10 pts
	Chapter 1	
	Consider a group of 19 people. If everyone shakes hands once with everyone else, how many	/
	handshakes take place?	

Questio	n 4			30 p
one step ι	the grid of p		elow. Suppose that, starting at that each move. This procedure is	
			В	
(0,2)		(2,2)		
(0,1)				
	•	†		
A (0,0)	(1,0)	(2,0)		
(i): How m	any possibl	e paths from A	to B are possible?	
(ii): How m	nany possib	le paths are the	re from A to B that goes throug	h the point circled in the grid?
(iii): How r	nany possik	ole paths are the	ere from A to B that avoids the p	point circled in the grid?

Question 5	20 pts
Chapter 1	
From a group of 9 women and 5 men, a committee consisting of 3 men and 3 women is to be formed. How many different committees are possible if	
(i): 2 men refuse to serve together?	
(ii): 1 man and 1 woman refuse to serve together?	
Input your answers in the following box (Hint: input an integer)	
(:)	
(ii)	

i) P({no two alike})	aneously rolling 6 dice. Compute the following probability: (ii) P({exactly one pair})
iii) P({exactly two pairs})	(iv)P({exactly three alike})
nput your answers in the follo	owing box (Hint: keep exactly 4 decimal places after the decimal poin
(i)	
(ii)	
(iii)	
(iv)	

the first number?
Input your answers in the following box (Hint: give an exact answer or keep exactly 4 decimal places after the decimal point)
Question 8
Chapter 2 Two fair dice are rolled. What is the probability that the sum of two numbers is odd or smaller than 8?

Input your answers in the following box (Hint: given an exact answer or keep exactly 4 decimal

places after the decimal point)

Question 9		20 p
Chapter 2		
Three cards are random that these three cards	ly chosen from a standard deck of 52 play ca	ards. Calculate the probability
(i) have exactly one pair		
(ii) have the same suit		
	ne following box (Hint: keep exactly 4 decima	1 - 1 0 1 1 1 1 1

Question 10	20 pts
Chapter 2	
Let A, B, C be 3 events. If we know that P(A)=0.2, P(B)=0.4, P(C)=0.6, and $P\left(A\cup B ight)=0.5,\ P\left(B\cup C ight)=0.7,\ P\left(A\cup C ight)=0.7,\ $ and $P\left(A\cap B\cap C ight)=0.7$	= 0.1.
Then, what is the probability of $P\left(A\cup B\cup C ight)$?	
Input your answers in the following box (Hint: given an exact answer or keep exactly 4 decimplaces after the decimal point)	al
Note: if the math equations are not displayed properly, you might need to switch a browser them.	o see