Describing Subsets	Name	: <u>Key</u>
For all probabilities with cards assum	ne one card is being drawn.	Hour:
	ly some new card games and is ndard 52 – card deck. Help him	curious about the probabilities of being figure out the probabilities listed below: c. P(diamond)
[7.71.]	7.7.1.	251.
d. P(black)	e. P(face card)	f. P(three or four)
2. Assume that two standard dice at a. P(sum 2) 1	are being rolled and the sum is b. P(sum of 9) 1	being calculated. Express answers as fractions
c. Event A = $\{\text{the sum is a multi}\}$	iple of 3}, find P(A)	
d. Event B = {the sum is a multi		
 Using the situation described Express answers as a decimal rounded to 	l in problem #1 answer the fo o the nearest hundredth.	llowing:
a. What is P(king or diamond)?problem #1?	How does your answer relate	to the probabilities you calculated in
b. What is the P(king or queen) in problem #1?	? Again, how does your answer	relate to the probabilities you calculated
c. P(diamond or face card)	d. P(10 or black)	
e. P(8 and red)	f. P(less than 5)	
g. P(less than 3 or face card)	h. P(greater than 5 but	less than 10)
4. Using the situation described in a. What is P(A and B)?	problem #2 find the following. b. What is P(A or B)?	A STATE OF THE PARTY OF THE PAR

