Name:	Date:	Hour:
Coincide	nce or Murder?	,
Kristen Gilbert started working at the VA obtained by the Boston Globe described compassionate. She organized charity defense attorneys said, and she once or died of cancer.	l her as "highly skillful, Irives and collections f	" calm and for the needy, one of her
However, Gilbert did have a tendency to sometimes referred to her as the "angel		
Federal prosecutor Bill Welch said that of during the shifts Gilbert was assigned to nurses grew suspicious.		
In particular, Gilbert's co-workers started emergencies ("codes") and deaths in Wiccourt records show. A criminal investigation her job soon after learning she was the	ard C between August	t 1995 and February 1996,
According to a search warrant affidavit, Ward C between January 1, 1995 and F present or on duty for 37 of them. Authorized presence during these emergencies was	February 19, 1996 sho prities determined the I	wed that Gilbert was ikelihood that her frequent
Source: http://www.hlntv.com/article/2013/04/01	/serial-killers-gilbert-ar	ngel-death-ward-c
1. What other explanations might the shifts?  Could be cancid unit. Night shift	here be for why Gilber ence . She f VS. Day Sl	t had more deaths on her Works on hours NIFF.
2. What statistical information woul about whether the deaths on Gill purely by chance?  How many of deaths similar of deaths to she is not	hart's chifts were coin	cidental or in other words

Name:		Date:	Hour: _	-	
An analysis of 164 is an association be	1 eight-hour shifts is etween Gilbert's pre	presented below. Usence and death du	lse the data to decid ring a shift.	e if there	
		Death during shift?			
		Yes	No	10 /20	
	Yes	40	217	257	
Gilbert present?	No	34	1350	1384	
$\chi^2$ 8	of test will you use to ASSOCIATI e test below using th	A stop process		mpartant 70 mpartant 70 with careful with sure sure sure sure sure sure sure sure	
State Ho: Ther and	e is no asso death dur	c. blw Gilbe ing shift.	rt's presence	Q:.01	
Plan: X2 for	Association		pected counts	<del>,</del>	
Random		V.	9 245.41		
•	H		41 1321.59		
Large Count	icted 25 V	62.	711	X	
DO: 22= 2 (	0-E)2				
$\frac{(40-11.59)^2}{11.59}$	+ (217-21)	45.41) <sup>2</sup> + (	62.41	+ (1350-1321.55)	
= 69.64 x2= 86.47	+ 3.29 df = 1	+ 12.9 p-value	3 + .61		
1 / 1/2	.47 (Cor	chioe.) We	have conv	nnung evidena ull.	
			Explain using the re 200 SMAL LSE RSUH		
purei	o ou on	unce.			