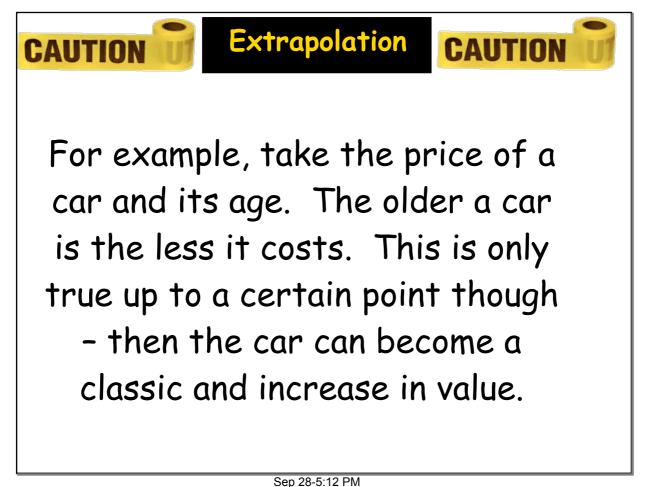
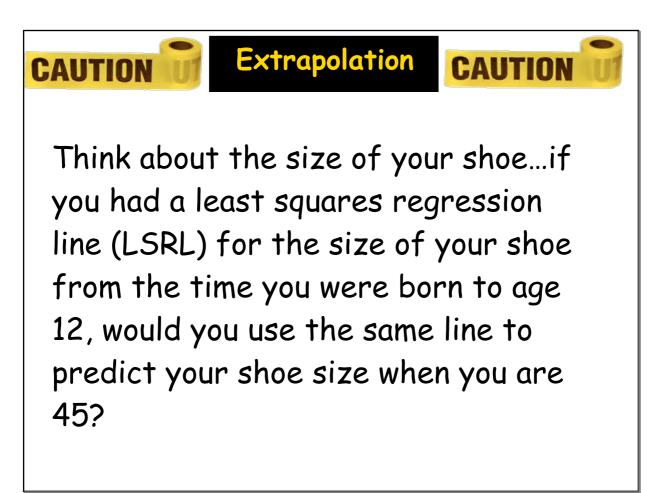
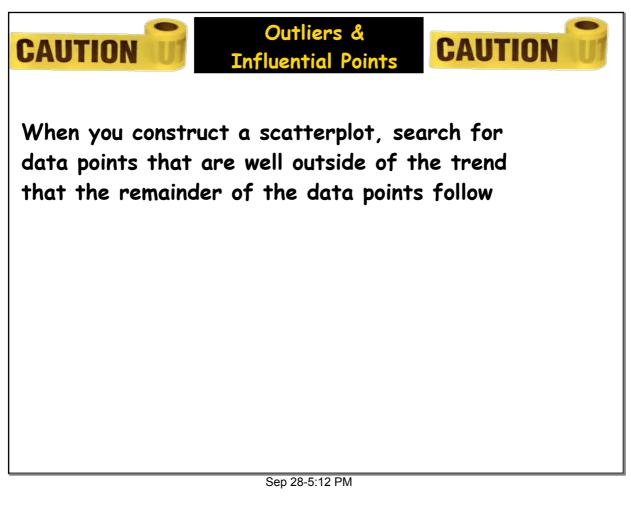
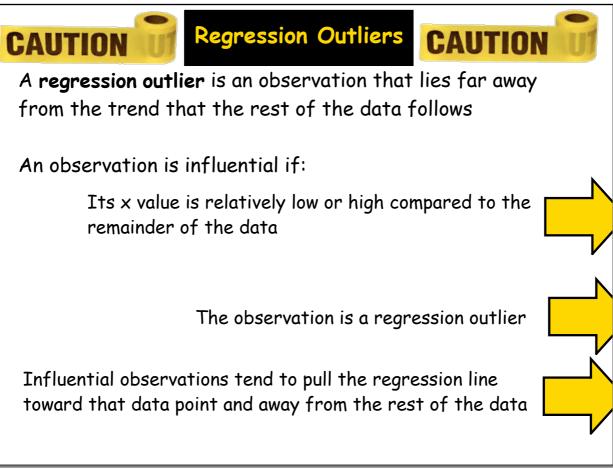


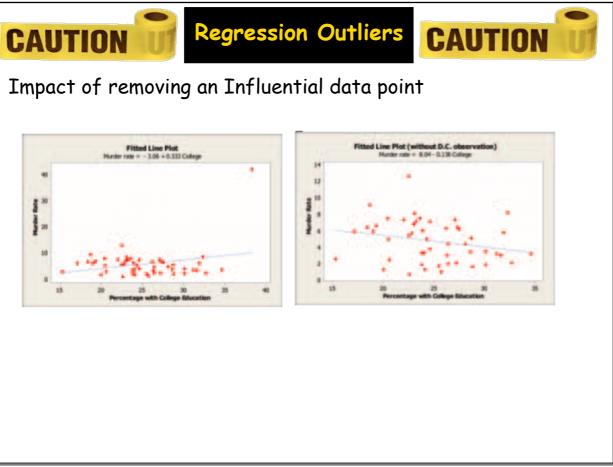
CAUTIONExtrapolationCAUTIONExtrapolation: Using a regression line to predict y-
values for x-values outside the observed range of
the dataImage of
the observed range of
the dataRiskier the farther we move from the
range of the given x-valuesImage of
the
the range of
the regression equation holds
outside the range of sampled x-values

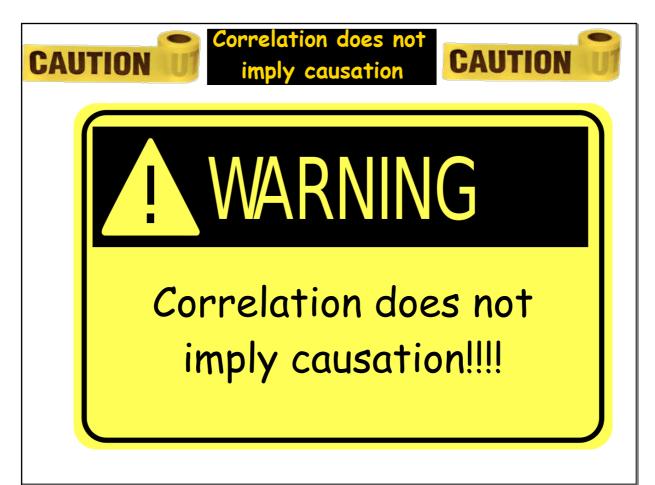


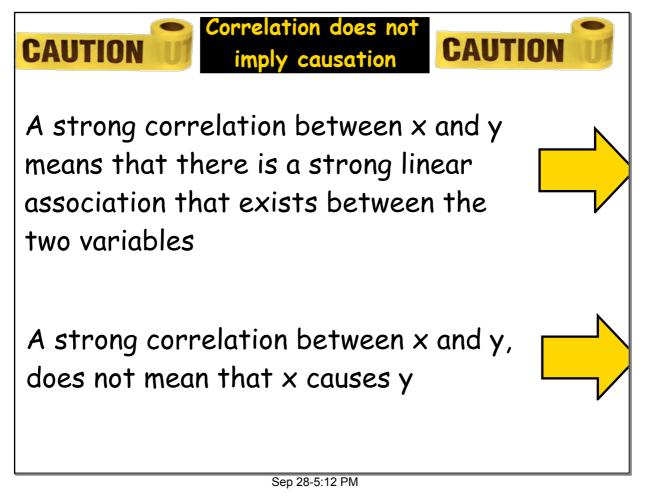


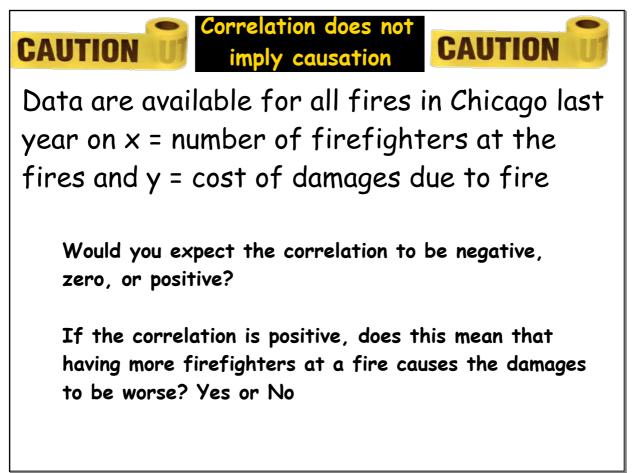


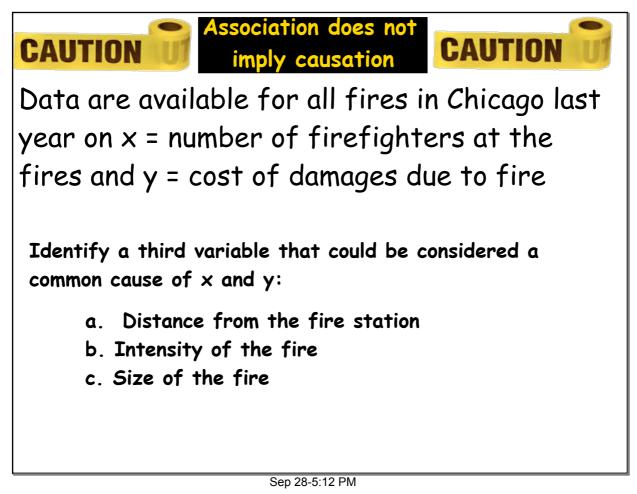


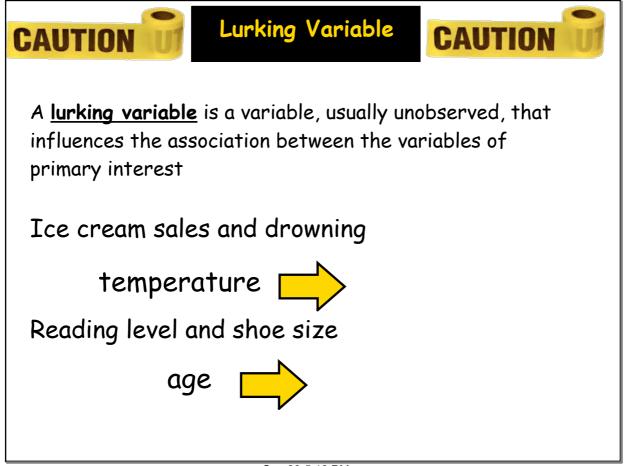


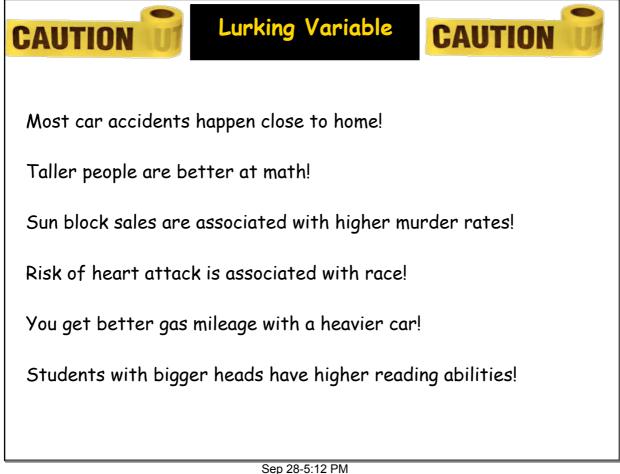


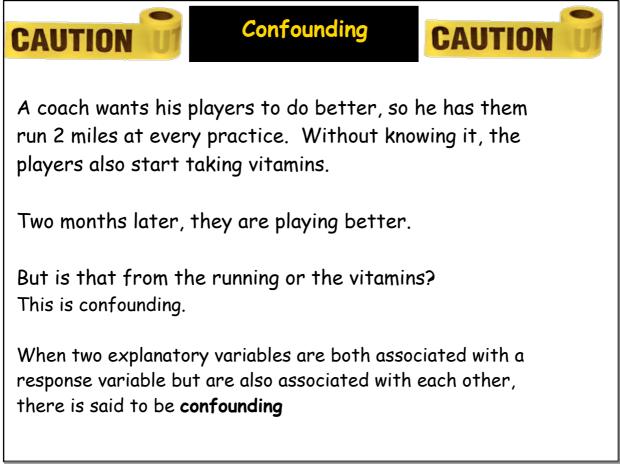


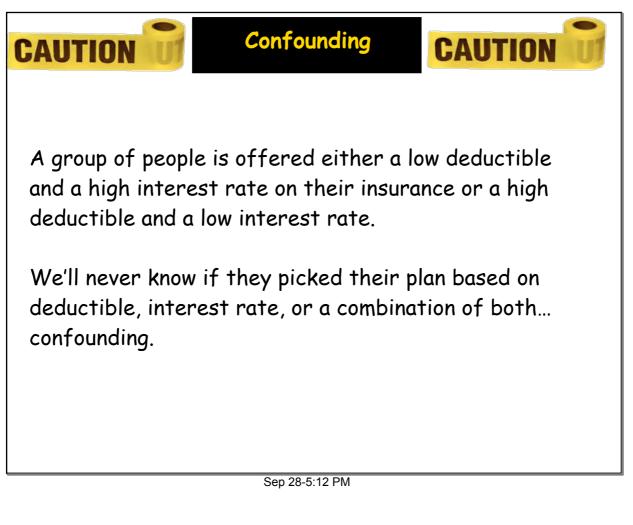


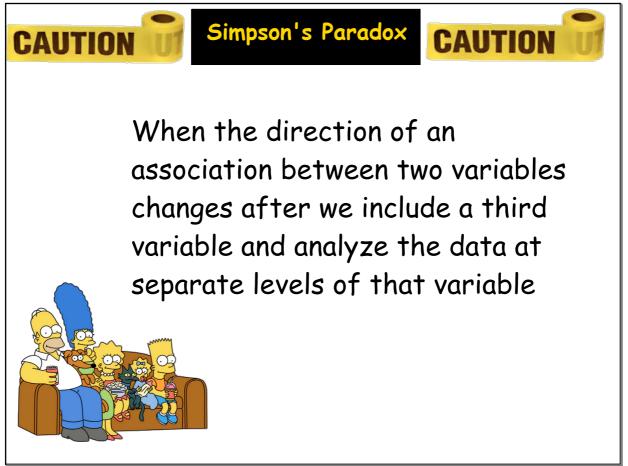






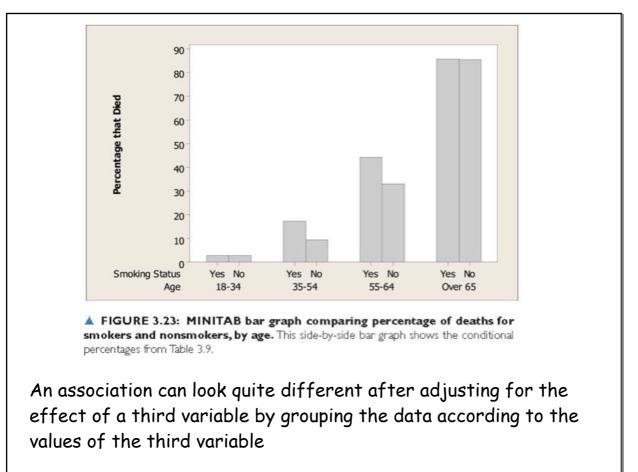






CAUTION	Simps	on's Parado	CAUT	ION 🕡
Example:				
Is S	imoking Actuall	y Beneficial to	Your Health?	
TABLE 3.7: 5	moking Status an	d 20-Year Survival	in Women	
Smoker	Survi Dead	val Status Alive	Total	
Yes	139	443	582	
No	230	502	732	
Total	369	945	1314	
		nsmoker=230/7	732=31%	of living!
		en 28-5:12 DM		

AUT	ION	U	S	imps	son's	; Par	adox	CA	UTION	U
eak out	t Date	a by	A							
	Dun	JUY	iye							
TABLE	3.8: Sr	noking	Status	and 20	-Year S	urvival,	for Four	Age Group	ps	
				Age G	iroup					
1	8–34 Sur	vival?	35–54 Si	urvival?	55-64 5	Survival?	65 + Su	irvival?		
Smoker	Dead A	live	Dead	Alive	Dead	Alive	Dead	Alive		
Yes	5	174	<u>(1)</u>	198	(51)	64	42	7		
No	6	213	19	180	40	81	165	28		
	No	onsmok	e <mark>rs, by</mark> /	Age.			imokers			
5/(5 + 12			-	, ir onir 1	able 5.0 u	ie proport		ied was		
				Age Grou						
Smoker	18	-34	3	5–54	5	5-64		65+		
Yes	2	.8%	_	7.2%	_	44.3%	8	5.7%		
No	2	.7%		9.5%		33.1%	8	5.5%		



2-point shots 3-point shots Overall Steve Nash 391 / 714 = .548 150 / 342 = .439 541 / 1056 = .512 Boris Diaw 441 / 823 = .536 8 / 30 = .267 449 / 853 = .526
Steve Nash 391 / 714 = .548 150 / 342 = .439 541 / 1056 = .512
Boris Diaw $441/823 - 536$ $8/30 - 267$ $440/853 - 526$
1013 D13 D13 D13 D13 D13 D13 D13 D13 D13 D

AUTION	Simpsor	n's Paradox	CAUTIO	DN U
	HS Physics	None	Improvement	
Student	50	5		
Ave Grade	80	70	10	
Table 1. Avera	age college phys engineering	-	students in an	

STAT-3.4-WEB.notebook

	# Students	Grades	Grade Pts
ngineering	50	80	4000
ib Arts	5	95	475
'otal	55		4475
Average		81.4	

	# Students	Grades	Grade Pts
Engineering	5	70	350
Lib Arts	50	85	4250
Total			4600
Average		83.6	

