



## STA2034—Spring 2013 Packet A Practice Problem ANSWER KEY

## For video solutions to these problems, visit www.teachingcenter.ufl.edu/vsi

Problem	Answer	√ or ×	Concept
1a	1/2		
1b	1/9		
1c	1/6		
1d	1/18		
1e	0		
1f	1/6		
1g	1/2		
2a	0.5		
2b	0.5		
2c	0.0122		
2d	0		
2e	0.32		
3a	Reject at 0.1 but not at 0.01		
3b	0.05		
	18 +-1.645*3.061/6 = (17.1607, 18.8393). This interval does not contain 19 therefore it supports our conclusion that the mean		
3c	value is less than 19		
4	y=-67.6907+0.6646Xi, SSE=779.55, df G=1,df E=18, df Total=19, MSG=935.45, MSE=43.31, F*=21.6 F(.95,1,18)=4.41. <b>Reject Ho.</b>		
5	Ho: mu1=mu2=mu3 Ha: at least 1 mean is different Y-bar1=4.4 Y-bar2=4.2 Y- bar3=6.4 \$1=.6733		





	S2=.9522 S3=.9522	
	SSG=14.8 SSE=27.2	
	DfG=2 DfE=12	
	SSTO=32	
	F(.95,2,12)=3.88,	
	F*=3.265 Fail to reject	
	p-hat=.55, the z-score is	
	.635 and the p-value	
	is 0,2643 So we <b>fail to</b>	
	reject Ho.	
	The Cl is .55+-	
	1.96(.07866)=(0.3958,.	
	7041). Since .5 is in	
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,	this range, it supports	
6	our failing to reject.	
	x-bar=8.4, t=2.886. Since	
	t*>t(16)=2.120 we	
	reject at .05 alpha	
	level. And the p-	
	value is in the range	
	.005 and .01. The	
	corresponding CI is	
7	(7.371,9.428)	





## **Are You Prepared?**

	Ask	yoursel	f:
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k y	ourself:
•	Which concepts do I clearly understand?
•	On which concepts do I need more work?
•	Where are there gaps in my background knowledge?
•	<ul> <li>Where can I get assistance?</li> <li>Text:</li> <li>Instructor office hours times/location:</li> <li>Tutoring, Reviews, Study Groups: Broward Hall Teaching Center</li> <li>Video resources: www.teachingcenter.ufl.edu/vsi</li> </ul>
•	What must I do to master this material? When?
•	What do I need to review first?