Elementary Statistics	Name:				
Study Guide 25	Class:				
Due Date:	Score:				
Your solutions must be consis	stent with class notes & resources.				
Be Neat, Organized,	and No Work \Leftrightarrow No Points				
is now \$675,000. Randomly selected with the mean price of \$650,000.	ces in southern California has dropped and it 45 houses recently sold in southern California lest the claim made by CNN at $\alpha=0.05$ by nat the standard deviation of all house prices				
(a) (2 points) Clearly state H_0 and	H_1 , identify the claim and type of test.				
$H_0:$					
(b) (2 points) Find and name all a and clearly mark and shade the	related critical values, draw the distribution, e critical region(s).				
(c) (2 points) Find the computed t	test statistic and the P-value.				
C.T.S. :	P-Value :				
(d) (2 points) Use non-statistical to the claim.	erminology to state your final conclusion about				
	(d)				
, , , = ,	we level of significance α from this list reverses the conclusion you have obtained.				
	(e)				

2.	in than	cal newspaper claims in an article that the average income income city is more than \$6000 per month. A sample of 20 dymen had the mean income of \$6150 with the standard deth. Test the claim made by the local newspaper at $\alpha=0.1$	randomly selected eviation of \$400 per
	(a)	(2 points) Clearly state H_0 and H_1 , and identify the claim	n and type of test.
		H_0 :	
		H_1 :	
	(b)	(2 points) Find and name all related critical values, dra and clearly mark and shade the critical region(s).	w the distribution,
	(c)	(2 points) Find the computed test statistic and the P-val	lue.
		C.T.S. : P-Value : _	
	(d)	(2 points) Use non-statistical terminology to state your fir the claim.	nal conclusion about
			(d)
	(e)	(2 points) Choose values for the level of significance α fr $\{0.01, 0.02, 0.05, 0.08, 0.09, 0.1\}$ that reverses the conclusion y	
			(e)
3.	Find	the corresponding p -value. Drawing & Shading Require	$\overline{\mathbf{d}}$
	(a)	(2 points) Given: C.T.S. $t = 4.321, df = 15$, and Right-T	- Cail Test.
			(a)
	(b)	(2 points) Given: C.T.S. $t=-4.321, df=15$, and Two-7	
			(b)

(a)	(3 points) I whole numb		mean ai	nd stand	dard de	eviation	of this	sample	. Round to
								` ,	
	It has been Test the val	_				_		-	
(b)	(2 points) (Clearly st	ate H_0	and H_1 ,	identi	fy the c	laim aı	nd type	of test.
	$H_0:$								
	H_1 :								
(c)	(2 points) Hand clearly							aw the	distribution
(d)	(2 points) I	Γ ind the ϵ	comput	ed test	statist	ic and t	he P-va	alue.	
(d)	, – ,	Find the c	_		statist			alue.	
` ′	, – ,	:				P-V	Value:		
` ′	C.T.S.	:				P-V	Value:	inal cone	
(e)	C.T.S.	: Jse non-s Choose va	tatistica	_ al termi r the le	nology vel of s	P-V to state	f alue : ϵ your f ϵ	inal cond (e) .	clusion abou

4. The scores of 12 randomly selected geometry exams are given below:

78 70 55 78 70 80 68 60
(a) (2 points) Find the mean and standard deviation of this sample. Round to a whole number.
(a)
It has been reported that the mean speed of all cars on the freeway is 75 mph. Test the validity of the report by using the data given above.
(b) (2 points) Clearly state H_0 and H_1 , identify the claim and type of test.
$H_0:$
$H_1:$
(c) (2 points) Find and name all related critical values, draw the distribution, and clearly mark and shade the critical region(s).
(d) (2 points) Find the computed test statistic and the P-value.
C.T.S. : P-Value :
(e) (2 points) Use non-statistical terminology to state your final conclusion about the claim.
(e)
6. (3 points) Given: C.T.S. $t = 3.875, df = 19$, and Two-Tail Test.
Find the corresponding p -value. Drawing & Shading Required
6
Cultivate a good work ethic, and work smarter, not just harder.

5. The speed of 8 randomly selected cars on a freeway are given below: