P Values

b) What is his conclusion?

Math Academy 1 Worksheet 8-C

1. Laney hypothe data from 10 peo a) What is her null hypo	ple wh										
b) If her null hypothesis	s is true, v	vhat is the	probabili	ity that sh	e will mal	ke a type l	error?				
c) If her null hypothesis	is false, v	what is the	probabil	ity that sh	ne will ma	ke a type I	l error?				
d) Calculate the <i>p</i> value				70	110	205	155	100	45	112	
Spring: Fall:	98 116	190 180	255 346	78 124	119 106	305 275	155 209	190 244	45 63	113 171	
e) Does she reject the r	null hypot	thesis?									
f) State exactly what pr	obability	her <i>p</i> valu	ie represe	nts.							
g) What is her conclusio	on?										
h) Use your answer to (e) to state	e the prob	ability tha	at she has	made a ty	ype I error	, if known				
i) Use your answer to (e	e) to state	the proba	ability tha	t she has ı	made a ty	pe II error	, if known				
2. Mason hypothe	esizes t	hat Che	mistry	studen	ts score	higher	secono	d semes	ter thar	n first sem	eseter. He
gets the semeste		ntages	from 9	random	n studei	nts who	took C	hemisti	y last y	ear.	
First Semester: Second Semester: a) Calculate his <i>p</i> value.		94 96	99 99	80 84	71 80	80 82	68 70	90 80	86 88	76 78	