

Quiz 6 for Statistics 301
Elementary Statistical Methods - Spring 2000
Material Covered: Sections 9.2,9.3 of Workbook; Chapter 9.4,9.5,9.6,9.7
of text
For: Friday, 14th April

Name (please print): _____
last first

The artifact frequency for an excavation of a Kiva in Bandelier National Monument gave the following information. Assume the random selection of frequencies below follow a normal distribution and that $\alpha = 0.05$.

Stratum	1	2	3	4	5	6
Nonflaked Stone Tools	3	2	12	8	18	33
Flaked Stone Tools	7	3	10	1	4	38

- (a) [1] This data involves (circle one) **paired samples** / **independent samples**.
- (b) [1] The observed value of the t test statistic
 is _____.
- (c) [1] In a right-sided test, the critical value
 is _____.
- (d) [1] We are interested in testing whether or not the data here supports the claim there is a greater mean number of nonflaked stone tools than flaked stone tools. In this case, the p-value is
 is _____.
- (e) [2] The null hypothesis, in this case, is the (circle one) **population** / **sample** mean number of nonflaked stone tools is (circle one) **less than** / **equal to** / **greater than** the **population** / **sample** mean number of flaked stone tools.

- (a) [1] **paired samples**
- (b) [1] 0.732 (use T-Test)
- (c) [1] 2.015 (use INVT)
- (d) [1] 0.249 (use T-Test)
- (e) [2] **population; equal to; population**