

Work with tables

1. Sample sizes are 36 and 45. Confidence level is 99%. t^* is

- a) 2.704
- b) 2.750
- c) 1.697
- d) 1.684

2. For confidence level 95%, z^* is

- a) 2.704
- b) 1.645
- c) 1.960
- d) 2.576

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3. You test $H_0: \mu=12$ vs. $H_A: \mu<12$. Sample size is 47. Suppose the value of test statistic t is -2.425. P-value is

a) $0.01 < p < 0.02$

b) $0.005 < p < 0.01$

c) $p=0.01$

d) $p=0.005$

4. You test $H_0: \mu=2$ vs. $H_A: \mu>2$. Sample size is 56. Suppose the value of test statistic t is 1.578. P-value is

a) $0.05 < p < 0.10$

b) $0.10 < p < 0.20$

c) $p=0.10$

d) $p=0.05$

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5. You test $H_0: \mu=8$ vs. $H_A: \mu \neq 8$. Sample size is 34. Suppose the value of test statistic t is -0.489 . P-value is

- a) $p > 0.25$
- b) $0.20 < p < 0.25$
- c) $p < 0.25$
- d) $p > 0.50$

6. You test $H_0: p=43$ vs. $H_A: p > 43$. Suppose the value of test statistic z is 2.653 . P-value is

- a) $0.0025 < p < 0.005$
- b) $0.005 < p < 0.01$
- c) $p = 0.10$
- d) $p = 0.005$

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7. You test $H_0: p=30$ vs. $H_A: p<30$. Suppose the value of test statistic z is -2.326 . P-value is

- a) $p=0.02$
- b) $0.01 < p < 0.02$
- c) $p=0.0099$
- d) $p=0.099$

8. You test $H_0: p=10$ vs. $H_A: p \neq 10$. Suppose the value of test statistic z is -1.73 . P-value is

- a) 0.0418
- b) 0.0836
- c) 0.9582
- d) 1.9164

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A researcher wanted to see if there was a relationship between education attainment level and whether someone smokes or does not smoke. She classified education attainment into five categories: did not graduate from high school, high school graduate, some college, college graduate, or graduate degree, and then performed a chi-square test on the data.

9. What were the degrees of freedom?

a) $(5)(2)=10$

b) $(4)(2)=8$

c) $(4)(1)=4$

d) *cannot be determined without the data*

10. Suppose the chi-square value for the test was 12.96. What is the p-value?

a) $0.01 < p < 0.02$

b) $0.02 < p < 0.01$

c) 0.02

d) $0.025 < p < 0.005$

Would you feel comfortable using the one-sample t-procedures to analyze each of these data?

0 | 0012238

1 | 0

2 | 1

3 |

4 |

5 | 1

6 |

7 | 0

-1 | 4322

-0 | 975

-0 | 4322222111

0 | 0012222233344

0 | 6677889

1 | 4

1 | 7

-1 | 3

-0 | 4

0 | 47

1 | 12

2 | 0023