

# P-Value Worksheet

Name: \_\_\_\_\_

Solve the Caption by matching answers on the other side.



16 13 14 5 2 9    18 7 8 2 13 6 9 13 8 13 5 12    —    9 4 1 3    1 3    7    4 10 5 2

17 1 3 11 13 15 2 14 12    16 13 14    11 4 2 2 14 8 2 7 17 1 6 5    !

## Match the Answers to Solve the Caption.

Find the following probabilities in the z-table.

### POSSIBLE ANSWERS

- \_\_\_\_\_ 1. Find  $P(Z > 1)$  A. 0.4129  
\_\_\_\_\_ 2. Find  $P(Z > |1|)$  C. 0.0183  
\_\_\_\_\_ 3. Find  $P(Z < -1.96)$  D. 0.8886  
\_\_\_\_\_ 4. Find  $P(Z > 5)$

Given  $H_0 : p = p_0$  and  $H_A : p < p_0$ ,  
find p-values for the following test statistics.

- \_\_\_\_\_ 5.  $z = -1.28$  E. 0.3174  
\_\_\_\_\_ 6.  $z = -2.76$  F. 0.0602  
\_\_\_\_\_ 7.  $z = -0.22$  G. 0.1003  
\_\_\_\_\_ 8.  $z = -1.90$  H.  $\approx 0$   
I. 0.1587

Given  $H_0 : p = p_0$  and  $H_A : p > p_0$ ,  
find p-values for the following test statistics.

- \_\_\_\_\_ 9.  $z = 1.05$  L. 0.0287  
\_\_\_\_\_ 10.  $z = 3.55$  N. 0.0029  
\_\_\_\_\_ 11.  $z = 2.09$  O. 0.2006  
\_\_\_\_\_ 12.  $z = 0.97$  P. 0.2670  
R. 0.0500

Given  $H_0 : p = p_0$  and  $H_A : p \neq p_0$ ,  
find p-values for the following test statistics.

- \_\_\_\_\_ 13.  $z = 1.28$  S. 0.0250  
\_\_\_\_\_ 14.  $z = -1.96$  T. 0.1469  
\_\_\_\_\_ 15.  $z = 1.65$  U. 0.0002  
\_\_\_\_\_ 16.  $z = 1.88$  V. 0.0990  
\_\_\_\_\_ 17.  $z = 0.14$  Y. 0.1660  
\_\_\_\_\_ 18.  $z = -1.11$