Attendance Quiz 15

Name: ___________________________ Date: __________________

1. (Finding Critical Values) find the critical $z$ values. In each case, assume that the normal distribution applies.

   Right-tailed test; $\alpha = 0.01$.

2. (Finding testing Values) find the value of the test statistic $z$ using

\[
z = \frac{\hat{p} - p}{\sqrt{\frac{pq}{n}}}
\]

The claim is that the proportion of adults who shop using the Internet is less than 0.5 (or 50%), and the sample statistics include $n = 1025$ subjects with 29% saying that they use the Internet for shopping.

3. (Finding P-Values) use the given information to find the $P$ values.

The test statistic in a right-tailed test is $z = 0.55$. 
4. *Testing claims About Proportions.* Test the given claim. Identify the null hypotheses, alternative hypothesis, test statistic, P-value or critical value(s), conclusion about the null hypothesis, and final conclusion that address the original claim. Try both ways: the P-valued method and traditional method.

Glamour magazine sponsored a survey of 2500 prospective brides and found that 60% of them spent less than $750 on their wedding gown. Use a 0.01 significance level to test the claim that less than 62% of brides spend less than $750 on their wedding gown. How are the results affected if it is learned that the responses were obtained from magazine readers who decided to respond to the survey through an Internet Web site?