

## Honors Statistics

### Finding P-values

Find the P-value for the indicated hypothesis test with the given standardized test statistic  $z$ . Decide whether to reject the null hypothesis for the given level of significance.

1. Left tailed test;  $z = -1.20$ ,  $\alpha = .10$
2. Right tailed test,  $z = 2.34$ ,  $\alpha = 0.01$
3. Left tailed test,  $z = -1.69$ ,  $\alpha = 0.05$
4. Two-tailed test,  $z = -1.56$ ,  $\alpha = 0.05$
5. Right tailed test,  $z = 1.23$ ,  $\alpha = 0.10$
6. Two tailed test,  $z = 2.30$ ,  $\alpha = 0.01$
7. Left tailed test;  $z = -2.23$ ,  $\alpha = .01$
8. Two-tailed test,  $z = -2.14$ ,  $\alpha = 0.05$
9. Right tailed test,  $z = 1.62$ ,  $\alpha = 0.05$
10. Two-tailed test,  $z = 2.31$ ,  $\alpha = 0.04$

### Answers

- 1 0.1151; fail to reject null
- 2 0.0096; reject null
- 3 0.0455, reject null
- 4 0.1188, fail to reject null
- 5 0.1093, fail to reject null
- 6 0.0214, fail to reject null
- 7 0.0129, fail to reject
- 8 0.0324, reject null
- 9 0.0526; fail to reject null
- 10 0.0209, reject null