WEEK 5 QUIZ

1. In a hypothesis test, the test statistic computed from the sample data is considered extreme or significant if it is_____.

- highly unlikely to occur due to chance
- very large
- highly likely to occur due to chance
- very small

2. A test of the hypotheses, H_0: $p = 0.18$ and H_1: $p \neq 0.18$ is a _____.

- test of two sample means
- one-tailed test
- two-tailed test
- test of two sample proportions

3. An analyst tested the null hypothesis $\mu \geq 30$ against the alternative hypothesis that $\mu < 30$. The analyst reported a p-value of 0.07. For what significance level of α will the null hypothesis would be rejected?

- $\alpha = 0.07$
- $0.05 < \alpha < 0.07$
- $\alpha \geq 0.07$
- $\alpha > 0.05$
- $\alpha > 0.07$

4. The dean of a business school claims that the average starting salary of its graduates is more than 85 (in $000's). It is known that the population standard deviation is 10 (in $000's). Sample data on the starting salaries of 64 randomly selected recent graduates yielded a mean of 88 (in $000s). Which of the following sets of hypotheses is correct?