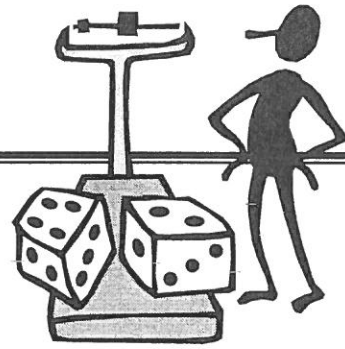


Chapter 21: More About Tests



Key Vocabulary:

- p -value
- statistically significant
- alpha level
- significance level
- Type I Error
- Type II Error
- power

1. Explain what the p -value represents.
2. What is meant by an $alpha$ level?
3. What does it mean for a result to be *statistically significant*?
4. A 95% confidence interval corresponds to a two-sided hypothesis test at what $alpha$ level?
5. A 90% confidence interval corresponds to a one-sided hypothesis test at what $alpha$ level?
6. Explain the difference between a *Type I* and *Type II Error*.
7. What is the probability of a *Type I Error*?
8. What is meant by the *power* of a test?
9. How do you calculate the *power* of a test?