

# Quiz: Randomization

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## Questions for Discussion

1. Explain the difference between internal and external validity.
2. Explain in words the Law of Large Numbers.
3. Explain the concept of two-stage randomization and why it is a good strategy.
4. Explain the following potential pitfalls of randomization:
  - Non-compliance
  - Attrition
  - Hawthorne effect
  - John Henry effect
5. Discuss the implementation of RCTs to evaluate the effectiveness of the following interventions:
  - Effectiveness of vaccines against a disease
  - Use of seat-belts to reduce traffic fatalities
  - Use of parachutes as safety devices in case of aircraft emergencies
  - Effectiveness of masks (respirators) in reducing transmission of a disease