

Math 101: Probability & Statistics

Multiple Choice

Directions: Select the best answer for each question.

1. A survey of 1000 people found that 60% of respondents considered the current state of the economy satisfactory. What measure is represented by the 60%? **Relative Frequency**
- a. Population
  - b. Sample
  - c. Relative Frequency
  - d. Standard Deviation

2. The mean of a normal distribution is 50. The standard deviation is 10. What is the probability that a randomly selected value from the distribution is between 40 and 60? **0.68**
- a. 0.68
  - b. 0.95
  - c. 0.99
  - d. 0.9975

3. Suppose that two events, A and B, are mutually exclusive. If P(A) = 0.3 and P(B) = 0.4, what is P(A or B)? **0.7**
- a. 0.7
  - b. 0.12
  - c. 0.1
  - d. 0.07

4. The number of students who passed an exam is normally distributed with a mean of 75 and a standard deviation of 5. What is the probability that a student scores between 70 and 80? **0.68**
- a. 0.68
  - b. 0.95
  - c. 0.99
  - d. 0.9975

5. A group of students is studying for an exam. The number of hours they study is normally distributed with a mean of 10 and a standard deviation of 2. What is the probability that a student studies between 8 and 12 hours? **0.68**
- a. 0.68
  - b. 0.95
  - c. 0.99
  - d. 0.9975



# Ap Stats Semester 1 Final Exam Answers

**Michael Brown**



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