# STATISTICS FOR BUSINESS AND ECONOMICS Lecture 1002 - STATC2001

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STATISTICS FOR BUSINESS AND ECONOMICS Lecture 1002 - STATC2001 / exp

Started on Wednesday, 1 June 2022, 4:05 PM
State Finished
Completed on Wednesday, 1 June 2022, 4:06 PM
Time taken 47 min 19 secs
Grade 24.00 out of 25.00 (96%)

Question **1**
Correct
Mark 1.00 out of 1.00
Flag question

Consider the following probability distribution of the random variable x

| x | 0 | 1 | 2 | 3 |
|---|---|---|---|---|
| P(x) | 0.2 | 0.3 | 0.4 | 0.1 |

Find the expected value of the random variable x.

Select one:
- 1.2
- 0.28
- 1.1
- 0.84
- 0.9
- 0.0100
- 0.0700
- 0.0300
- 0.0900
- 0.0800

The correct answer is: 1.2

Question **2**
Correct
Mark 1.00 out of 1.00
Flag question

Let X be a random variable number variables. Compute $P(-1 \le X)$.

Select one:
- 0.7
- 0.8
- 0.9
- 0.6
- 0.5

The correct answer is: 0.7

Question **3**
Correct
Mark 1.00 out of 1.00
Flag question

A is an event in employees form a group of 10 employees for a certain project. The employees are 3 women and 7 men. Two employees are selected at random, one produced, one produced, and two produced. Compute the probability that the selected employees are women.

Select one:
- 1.1666
- 43.666
- 0.466
- 50.024
- 0.233
- 0.0466
- 57.133
- 1.1666

The correct answer is: 0.0466

Question **4**
Correct
Mark 1.00 out of 1.00
Flag question

Let $X = \{1, 2, 3\}$, $Y = \{1, 2\}$ be the sample space of two random variables X and Y. Let $A = \{X \le 2\}$ and $B = \{Y \le 1\}$ be the events in $X \times Y$. Compute the probability of the event $A \cup B$ if the joint probability distribution of X and Y is given by $P(X = x, Y = y) = \frac{x+y}{18}$, $x \in X$, $y \in Y$.

Select one:
- 0.7
- 0.8
- 0.9
- 0.6
- 0.5

The correct answer is: 0.7

Question **5**
Correct
Mark 1.00 out of 1.00
Flag question

Consider the following probability distribution of the random variable x

| x | 0 | 1 | 2 | 3 |
|---|---|---|---|---|
| P(x) | 0.2 | 0.3 | 0.4 | 0.1 |

Find the expected value of the random variable x.

Select one:
- 1.2
- 0.28
- 1.1
- 0.84
- 0.9
- 0.0100
- 0.0700
- 0.0300
- 0.0900
- 0.0800

The correct answer is: 1.2

Question **6**
Correct
Mark 1.00 out of 1.00
Flag question

Let $X = \{1, 2, 3\}$, $Y = \{1, 2\}$ be the sample space of two random variables X and Y. Let $A = \{X \le 2\}$ and $B = \{Y \le 1\}$ be the events in $X \times Y$. Compute the probability of the event $A \cup B$ if the joint probability distribution of X and Y is given by $P(X = x, Y = y) = \frac{x+y}{18}$, $x \in X$, $y \in Y$.

Select one:
- 0.7
- 0.8
- 0.9
- 0.6
- 0.5

The correct answer is: 0.7

Question **7**
Correct
Mark 1.00 out of 1.00
Flag question

Let X be a random variable number variables. Compute $P(-1 \le X)$.

Select one:
- 0.7
- 0.8
- 0.9
- 0.6
- 0.5

The correct answer is: 0.7

Question **8**
Correct
Mark 1.00 out of 1.00
Flag question

Consider the following probability distribution of the random variable x

| x | 0 | 1 | 2 | 3 |
|---|---|---|---|---|
| P(x) | 0.2 | 0.3 | 0.4 | 0.1 |

Find the expected value of the random variable x.

Select one:
- 1.2
- 0.28
- 1.1
- 0.84
- 0.9
- 0.0100
- 0.0700
- 0.0300
- 0.0900
- 0.0800

The correct answer is: 1.2

Question **9**
Correct
Mark 1.00 out of 1.00
Flag question

Let X be a random variable number variables. Compute $P(-1 \le X)$.

Select one:
- 0.7
- 0.8
- 0.9
- 0.6
- 0.5

The correct answer is: 0.7

Question **10**
Correct
Mark 1.00 out of 1.00
Flag question

Consider the following probability distribution of the random variable x

| x | 0 | 1 | 2 | 3 |
|---|---|---|---|---|
| P(x) | 0.2 | 0.3 | 0.4 | 0.1 |

Find the expected value of the random variable x.

Select one:
- 1.2
- 0.28
- 1.1
- 0.84
- 0.9
- 0.0100
- 0.0700
- 0.0300
- 0.0900
- 0.0800

The correct answer is: 1.2

Question **11**
Correct
Mark 1.00 out of 1.00
Flag question

Let X be a random variable number variables. Compute $P(-1 \le X)$.

Select one:
- 0.7
- 0.8
- 0.9
- 0.6
- 0.5

The correct answer is: 0.7

Question **12**
Correct
Mark 1.00 out of 1.00
Flag question

Consider the following probability distribution of the random variable x

| x | 0 | 1 | 2 | 3 |
|---|---|---|---|---|
| P(x) | 0.2 | 0.3 | 0.4 | 0.1 |

Find the expected value of the random variable x.

Select one:
- 1.2
- 0.28
- 1.1
- 0.84
- 0.9
- 0.0100
- 0.0700
- 0.0300
- 0.0900
- 0.0800

The correct answer is: 1.2

Question **13**
Correct
Mark 1.00 out of 1.00
Flag question

Let X be a random variable number variables. Compute $P(-1 \le X)$.

Select one:
- 0.7
- 0.8
- 0.9
- 0.6
- 0.5

The correct answer is: 0.7

Question **14**
Correct
Mark 1.00 out of 1.00
Flag question

Consider the following probability distribution of the random variable x

| x | 0 | 1 | 2 | 3 |
|---|---|---|---|---|
| P(x) | 0.2 | 0.3 | 0.4 | 0.1 |

Find the expected value of the random variable x.

Select one:
- 1.2
- 0.28
- 1.1
- 0.84
- 0.9
- 0.0100
- 0.0700
- 0.0300
- 0.0900
- 0.0800

The correct answer is: 1.2

Question **15**
Correct
Mark 1.00 out of 1.00
Flag question

Let X be a random variable number variables. Compute $P(-1 \le X)$.

Select one:
- 0.7
- 0.8
- 0.9
- 0.6
- 0.5

The correct answer is: 0.7

Question **16**
Correct
Mark 1.00 out of 1.00
Flag question

Consider the following probability distribution of the random variable x

| x | 0 | 1 | 2 | 3 |
|---|---|---|---|---|
| P(x) | 0.2 | 0.3 | 0.4 | 0.1 |

Find the expected value of the random variable x.

Select one:
- 1.2
- 0.28
- 1.1
- 0.84
- 0.9
- 0.0100
- 0.0700
- 0.0300
- 0.0900
- 0.0800

The correct answer is: 1.2

Question **17**
Correct
Mark 1.00 out of 1.00
Flag question

Let X be a random variable number variables. Compute $P(-1 \le X)$.

Select one:
- 0.7
- 0.8
- 0.9
- 0.6
- 0.5

The correct answer is: 0.7

Question **18**
Correct
Mark 1.00 out of 1.00
Flag question

Consider a binomial experiment with 5 trials and $p = 0.3$ Find $P(x = 2)$.

Select one:
- 0.3087
- 0.2646
- 0.1323
- 0.0283
- 0.3087

The correct answer is: 0.3087

Question **19**
Correct
Mark 1.00 out of 1.00
Flag question

Consider the following probability distribution of the random variable x

| x | 0 | 1 | 2 | 3 |
|---|---|---|---|---|
| P(x) | 0.2 | 0.3 | 0.4 | 0.1 |

Find the expected value of the random variable x.

Select one:
- 1.2
- 0.28
- 1.1
- 0.84
- 0.9
- 0.0100
- 0.0700
- 0.0300
- 0.0900
- 0.0800

The correct answer is: 1.2

Question **20**
Correct
Mark 1.00 out of 1.00
Flag question

Consider a binomial experiment with 5 trials and $p = 0.3$ Find $P(x \le 2)$.

Select one:
- 1.5
- 0.3087
- 0.8369
- 0.1323
- 0.0283

The correct answer is: 1.5

Question **21**
Correct
Mark 1.00 out of 1.00
Flag question

Let X be a random variable number variables. Compute $P(-1 \le X)$.

Select one:
- 0.7
- 0.8
- 0.9
- 0.6
- 0.5

The correct answer is: 0.7

Question **22**
Correct
Mark 1.00 out of 1.00
Flag question

Consider the following probability distribution of the random variable x

| x | 0 | 1 | 2 | 3 |
|---|---|---|---|---|
| P(x) | 0.2 | 0.3 | 0.4 | 0.1 |

Find the expected value of the random variable x.

Select one:
- 1.2
- 0.28
- 1.1
- 0.84
- 0.9
- 0.0100
- 0.0700
- 0.0300
- 0.0900
- 0.0800

The correct answer is: 1.2

Question **23**
Correct
Mark 1.00 out of 1.00
Flag question

Let X be a random variable number variables. Compute $P(-1 \le X)$.

Select one:
- 0.7
- 0.8
- 0.9
- 0.6
- 0.5

The correct answer is: 0.7

Question **24**
Correct
Mark 1.00 out of 1.00
Flag question

Consider a binomial experiment with 5 trials and $p = 0.3$ Find $P(x \le 2)$.

Select one:
- 1.5
- 0.3087
- 0.8369
- 0.1323
- 0.0283

The correct answer is: 1.5

Question **25**
Correct
Mark 1.00 out of 1.00
Flag question

Consider a binomial experiment with 5 trials and $p = 0.3$ Find $P(x \ge 2)$.

Select one:
- 0.3087
- 0.8369
- 0.1323
- 0.0283
- 0.3087

The correct answer is: 0.8369

Question **26**
Correct
Mark 1.00 out of 1.00
Flag question

Consider the following probability distribution of the random variable x

| x | 0 | 1 | 2 | 3 |
|---|---|---|---|---|
| P(x) | 0.2 | 0.3 | 0.4 | 0.1 |

Find the expected value of the random variable x.

Select one:
- 1.2
- 0.28
- 1.1
- 0.84
- 0.9
- 0.0100
- 0.0700
- 0.0300
- 0.0900
- 0.0800

The correct answer is: 1.2

Question **27**
Correct
Mark 1.00 out of 1.00
Flag question

Let X be a random variable number variables. Compute $P(-1 \le X)$.

Select one:
- 0.7
- 0.8
- 0.9
- 0.6
- 0.5

The correct answer is: 0.7

Question **28**
Correct
Mark 1.00 out of 1.00
Flag question

Consider a binomial experiment with 5 trials and $p = 0.3$ Find $P(x \ge 2)$.

Select one:
- 0.3087
- 0.8369
- 0.1323
- 0.0283
- 0.3087

The correct answer is: 0.8369

Question **29**
Correct
Mark 1.00 out of 1.00
Flag question

Consider the following probability distribution of the random variable x

| x | 0 | 1 | 2 | 3 |
|---|---|---|---|---|
| P(x) | 0.2 | 0.3 | 0.4 | 0.1 |

Find the expected value of the random variable x.

Select one:
- 1.2
- 0.28
- 1.1
- 0.84
- 0.9
- 0.0100
- 0.0700
- 0.0300
- 0.0900
- 0.0800

The correct answer is: 1.2

Question **30**
Correct
Mark 1.00 out of 1.00
Flag question

Let X be a random variable number variables. Compute $P(-1 \le X)$.

Select one:
- 0.7
- 0.8
- 0.9
- 0.6
- 0.5

The correct answer is: 0.7

Question **31**
Correct
Mark 1.00 out of 1.00
Flag question

Consider a binomial experiment with 5 trials and $p = 0.3$ Find $P(x = 2)$.

Select one:
- 0.3087
- 0.2646
- 0.1323
- 0.0283
- 0.3087

The correct answer is: 0.3087

Question **32**
Correct
Mark 1.00 out of 1.00
Flag question

Consider the following probability distribution of the random variable x

| x | 0 | 1 | 2 | 3 |
|---|---|---|---|---|
| P(x) | 0.2 | 0.3 | 0.4 | 0.1 |

Find the expected value of the random variable x.

Select one:
- 1.2
- 0.28
- 1.1
- 0.84
- 0.9
- 0.0100
- 0.0700
- 0.0300
- 0.0900
- 0.0800

The correct answer is: 1.2

Question **33**
Correct
Mark 1.00 out of 1.00
Flag question

Let X be a random variable number variables. Compute $P(-1 \le X)$.

Select one:
- 0.7
- 0.8
- 0.9
- 0.6
- 0.5

The correct answer is: 0.7

Question **34**
Correct
Mark 1.00 out of 1.00
Flag question

Consider a binomial experiment with 5 trials and $p = 0.3$ Find $P(x \ge 2)$.

Select one:
- 0.3087
- 0.8369
- 0.1323
- 0.0283
- 0.3087

The correct answer is: 0.8369

Question **35**
Correct
Mark 1.00 out of 1.00
Flag question

Consider the following probability distribution of the random variable x

| x | 0 | 1 | 2 | 3 |
|---|---|---|---|---|
| P(x) | 0.2 | 0.3 | 0.4 | 0.1 |

Find the expected value of the random variable x.

Select one:
- 1.2
- 0.28
- 1.1
- 0.84
- 0.9
- 0.0100
- 0.0700
- 0.0300
- 0.0900
- 0.0800

The correct answer is: 1.2

Question **36**
Correct
Mark 1.00 out of 1.00
Flag question

Let X be a random variable number variables. Compute $P(-1 \le X)$.

Select one:
- 0.7
- 0.8
- 0.9
- 0.6
- 0.5

The correct answer is: 0.7

Question **37**
Correct
Mark 1.00 out of 1.00
Flag question

Consider a binomial experiment with 5 trials and $p = 0.3$ Find $P(x \le 2)$.

Select one:
- 1.5
- 0.3087
- 0.8369
- 0.1323
- 0.0283

The correct answer is: 1.5

Question **38**
Correct
Mark 1.00 out of 1.00
Flag question

Consider a binomial experiment with 5 trials and $p = 0.3$ Find $P(x \ge 2)$.

Select one:
- 0.3087
- 0.8369
- 0.1323
- 0.0283
- 0.3087

The correct answer is: 0.8369

Question **39**
Correct
Mark 1.00 out of 1.00
Flag question

Consider the following probability distribution of the random variable x

| x | 0 | 1 | 2 | 3 |
|---|---|---|---|---|
| P(x) | 0.2 | 0.3 | 0.4 | 0.1 |

Find the expected value of the random variable x.

Select one:
- 1.2
- 0.28
- 1.1
- 0.84
- 0.9
- 0.0100
- 0.0700
- 0.0300
- 0.0900
- 0.0800

The correct answer is: 1.2

Question **40**
Correct
Mark 1.00 out of 1.00
Flag question

Let X be a random variable number variables. Compute $P(-1 \le X)$.

Select one:
- 0.7
- 0.8
- 0.9
- 0.6
- 0.5

The correct answer is: 0.7

Question **41**
Correct
Mark 1.00 out of 1.00
Flag question

Consider a binomial experiment with 5 trials and $p = 0.3$ Find $P(x = 2)$.

Select one:
- 0.3087
- 0.2646
- 0.1323
- 0.0283
- 0.3087

The correct answer is: 0.3087

Question **42**
Correct
Mark 1.00 out of 1.00
Flag question

Consider the following probability distribution of the random variable x

| x | 0 | 1 | 2 | 3 |
|---|---|---|---|---|
| P(x) | 0.2 | 0.3 | 0.4 | 0.1 |

Find the expected value of the random variable x.

Select one:
- 1.2
- 0.28
- 1.1
- 0.84
- 0.9
- 0.0100
- 0.0700
- 0.0300
- 0.0900
- 0.0800

The correct answer is: 1.2

Question **43**
Correct
Mark 1.00 out of 1.00
Flag question

Let X be a random variable number variables. Compute $P(-1 \le X)$.

Select one:
- 0.7
- 0.8
- 0.9
- 0.6
- 0.5

The correct answer is: 0.7

Question **44**
Correct
Mark 1.00 out of 1.00
Flag question

Consider a binomial experiment with 5 trials and $p = 0.3$ Find $P(x \le 2)$.

Select one:
- 1.5
- 0.3087
- 0.8369
- 0.1323
- 0.0283

The correct answer is: 1.5

Question **45**
Correct
Mark 1.00 out of 1.00
Flag question

Consider a binomial experiment with 5 trials and $p = 0.3$ Find $P(x \ge 2)$.

Select one:
- 0.3087
- 0.8369
- 0.1323
- 0.0283
- 0.3087

The correct answer is: 0.8369

Question **46**
Correct
Mark 1.00 out of 1.00
Flag question

Consider the following probability distribution of the random variable x

| x | 0 | 1 | 2 | 3 |
|---|---|---|---|---|
| P(x) | 0.2 | 0.3 | 0.4 | 0.1 |

Find the expected value of the random variable x.

Select one:
- 1.2
- 0.28
- 1.1
- 0.84
- 0.9
- 0.0100
- 0.0700
- 0.0300
- 0.0900
- 0.0800

The correct answer is: 1.2

Question **47**
Correct
Mark 1.00 out of 1.00
Flag question

Let X be a random variable number variables. Compute $P(-1 \le X)$.

Select one:
- 0.7
- 0.8
- 0.9
- 0.6
- 0.5

The correct answer is: 0.7

Question **48**
Correct
Mark 1.00 out of 1.00
Flag question

Consider a binomial experiment with 5 trials and $p = 0.3$ Find $P(x = 2)$.

Select one:
- 0.3087
- 0.2646
- 0.1323
- 0.0283
- 0.3087

The correct answer is: 0.3087

Question **49**
Correct
Mark 1.00 out of 1.00
Flag question

Consider the following probability distribution of the random variable x

| x | 0 | 1 | 2 | 3 |
|---|---|---|---|---|
| P(x) | 0.2 | 0.3 | 0.4 | 0.1 |

Find the expected value of the random variable x.

Select one:
- 1.2
- 0.28
- 1.1
- 0.84
- 0.9
- 0.0100
- 0.0700
- 0.0300
- 0.0900
- 0.0800

The correct answer is: 1.2

Question **50**
Correct
Mark 1.00 out of 1.00
Flag question

Let X be a random variable number variables. Compute $P(-1 \le X)$.

Select one:
- 0.7
- 0.8
- 0.9
- 0.6
- 0.5

The correct answer is: 0.7