

Solve the problem.

5) Find the chi-square value χ^2_L and χ^2_R corresponding to a sample size of 22 and a confidence level of 98 percent.

- A) 9.542, 40.289 B) -8.897, 8.897 C) 8.897, 38.932 D) -2.33, 2.33

Find the indicated probability.

6) A spinner has equal regions numbered 1 through 12. What is the probability that the spinner will stop on an even number or a multiple of 3?

- A) $\frac{2}{3}$ B) $\frac{3}{4}$ C) $\frac{5}{6}$ D) 8

Solve the problem.

7) How many ways can 5 people be chosen and arranged in order in a straight line if there are 8 people to choose from?

- A) 40 B) 120 C) 56 D) 6720

Find the mean and standard deviation for the given sample data.

8)

22	31	43	37	29
28	28	28	30	49
40	32	25	41	41

- A) mean = 31
standard deviation = 1.80
- B) mean = 33.9
standard deviation = 8.06
- C) mean = 33.6
standard deviation = 7.72
- D) mean = 33.6
standard deviation = 7.45

Choose the values that represent the 5-number summary.

9) To construct a box plot for sample data, the 5-number summary must be used. Which numbers represent the 5-number summary?

- | | |
|---|---|
| <p>A) first quartile
second quartile
third quartile
fourth quartile
fifth quartile</p> <p>C) minimum value
maximum value
median
first quartile
third quartile</p> | <p>B) mean
median
mode
standard deviation
variance</p> <p>D) minimum value
maximum value
mean
standard deviation
mode</p> |
|---|---|

Construct the cumulative frequency distribution that corresponds to the given frequency distribution.

10)

Days of vacation	Frequency
0 - 3	16
4 - 7	20
8 - 11	14
12 - 15	24
16 - 19	26

A)

Days of vacation	Cumulative Frequency
0 - 3	0.16
4 - 7	0.2
8 - 11	0.14
12 - 15	0.24
16 - 19	0.26

B)

Days of vacation	Cumulative Frequency
0 - 3	16
4 - 7	36
8 - 11	50
12 - 15	74
16 - 19	100

C)

Days of vacation	Cumulative Frequency
0 - 3	36
4 - 7	50
8 - 11	74
12 - 15	100
16 - 19	126

D)

Days of vacation	Cumulative Frequency
0 - 3	16
4 - 7	36
8 - 11	51
12 - 15	75
16 - 19	100

Answer Key

Testname: STATAFINALMCF07

- 1) B
- 2) D
- 3) D
- 4) C
- 5) C
- 6) A
- 7) D
- 8) C
- 9) C
- 10) B