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QUESTION 1

Typically a person who is trained to the skill level of a Black Belt is nearly 80% dedicated to applying Lean Six Sigma methodologies towards process solutions.

A. True

B. False

Correct Answer: B

QUESTION 2

When a Belt is analyzing sample data she should keep in mind that 95% of Normally Distributed data is within +/- 2 Standard Deviations from the Mean.

A. True

B. False

Correct Answer: A

QUESTION 3

A 1-Sample t-test is used when you want to compare the Median of one distribution to a target value.

A. True

B. False

Correct Answer: B

QUESTION 4

Skewed, or Mixed, Distributions occur when data comes from several sources that are supposed to be the same yet are not.

A. True

B. False

Correct Answer: A

QUESTION 5

The Alpha level of a test (level of significance) represents the yardstick against which P-values are measured and the Null Hypothesis is rejected if the P-value is which of these?

- A. Less than the Alpha level.
- B. Greater than the Alpha level.
- C. Greater than the Beta and Alpha level.
- D. Less than one minus Alpha.
- E. Less than the power of one minus Beta.

Correct Answer: A

QUESTION 6

Long-term Data represents all the variation that one can expect within the subject process.

- A. True
- B. False

Correct Answer: A

QUESTION 7

Due to excessive pollution, GREEN Solutions Inc. is considering subsidizing public transportation to work for its employees. According to the manager it takes an average weekday commute of 39 minutes with a Standard Deviation of 7 minutes for the employees to get to work while they use their personal vehicles for their office commute while the management set a policy of not more than 40 minutes for their daily one-way commute. A survey conducted one day on 70 employees showed an average of 34 minutes commuting time using the metro public transportation system with a Standard Deviation of 21 minutes. Assuming a Normal Distribution for the commute times by either personal or public transportation, which of these is true?

- A. The probability that they would arrive on time using personal vehicles is much higher than using the metro public transportation system (MPTS)
- B. The probability that they would arrive on time using the MPTS is much higher than using their personal vehicles
- C. The two probabilities are about the same excepting in one case the consistency is higher than the other
- D. We need to compile more data around weekends to incorporate for traffic differences
- E. When Standard Deviation is higher the probability goes down and so the MPTS is worse

Correct Answer: B

QUESTION 8

When constructing a Fishbone Diagram using the _____ approach is the most classic arrangement.

- A. 6M

B. 4M

C. 5M

D. Alphabetical

Correct Answer: A

QUESTION 9

According to a manager it takes an average weekday commute of 39 minutes with a Standard Deviation of 7 minutes for the employees to get to work while they use their personal vehicles for their office commute while the management set a policy of not more than 40 minutes for their daily one-way commute. A survey conducted one day on 70 employees showed an average of 34 minutes commuting time using the metro public transportation system with a Standard Deviation of 21 minutes. If the Standard Deviation is uncontrollable then the other option to increase the probability of coming in on time via personal vehicles to work could be _____?

A. Increase the average time of commute

B. Maintain the average time of commute and change route to work

C. Reduce average commute time to work by departing earlier

D. Change policy at work and request for flexible times based on location

Correct Answer: C

QUESTION 10

What is the Cycle Time, in minutes, for a process having a Throughput of 360 units per hour?

A. 0.167

B. 0.333

C. 0.667

D. 1.333

Correct Answer: A

QUESTION 11

Six Sigma refers to a process whose output has at least 80% of its data points within +/- 6 Standard Deviations from the Mean.

A. True

B. False

Correct Answer: B

QUESTION 12

Use of the _____ approach is the most classic arrangement when constructing a Fishbone Diagram.

- A. Chronological
- B. 6M
- C. 5M
- D. Alphabetical

Correct Answer: B

QUESTION 13

A 1-Sample t-test is used to compare an expected population Mean to a target.

- A. True
- B. False

Correct Answer: A

QUESTION 14

Lean Six Sigma's general approach to solving significant challenges related to a process is called _____.

- A. DOE
- B. SIPOC
- C. DMAIC D. FMEA

Correct Answer: C

QUESTION 15

The _____ is important because it provides an estimate of the probability of an event occurring depending on the Standard Deviation from the Mean.

- A. Shewhart Principle
- B. Pareto Rule
- C. Mean/Mode Spread
- D. Empirical Rule

Correct Answer: D

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