Multiple Choice Quiz

(See related pages)

Results Reporter

Out of 15 questions, you answered 3 correctly with a final grade of 20%

3 correct (20%)
12 incorrect (80%)
0 unanswered (0%)

Your Results:

The correct answer for each question is indicated by a ✓.

1 INCORRECT

In statistical process control, attributes are characteristics that can be:

- **A)** measured.
- ✓ **B)** counted.
- **C)** observed.
- **D)** replicated.

2 INCORRECT

Narrowing control limits from 3s to 2s will increase the probability of making a(n) _____ error.

- **A)** Type I
- **B)** alpha
- **C)** Type III
- **D)** beta
- ✓ **E)** Type II

3 INCORRECT

The _____ the sample size, the _____ the sampling distribution.

- **A)** smaller; more accurate
- **B)** larger; more accurate
- **C)** smaller; less variable
- ✓ **D)** larger; less variable

4 INCORRECT

A point which is outside of the lower control limit on a *c*-chart:

- **A)** is an indication that no cause of variation is present.
- **B)** should be ignored because it signifies better-than-average quality.
- ✓ **C)** should be investigated because an assignable cause of variation might be present.
- **D)** should be ignored unless another point is outside that limit.
- **E)** is impossible since the lower control limit is always zero.

5 INCORRECT

How many A/B median runs are there in the following data: 3 5 4 8 7 6 4 3 2 9

- **A)** 2
- **B)** 3
- **C)** 4
- **D)** 5
- ✓ **E)** 6

6 CORRECT

How many up/down runs are there in the following data: 5 2 3 5 4 3 2 1 2 4

- **A)** 2
- **B)** 3
- ✓ **C)** 4
- **D)** 5
- **E)** 6

7 CORRECT

Which type of control chart would be appropriate if the variable being monitored is the number of students absent from section 1 of a statistics class?

- **A)** *x*-bar
- ✓ **B)** *p*
- **C)** *R*

D) *c*

8 **INCORRECT**

We are monitoring a process that has an outcome that is normally distributed with a mean of 100 and a standard deviation of 10. We would use _____ to evaluate whether this process's average is remaining in control.

✓ **A)** *x*-bar charts

B) *R*-charts

C) *p*-charts

D) *z*-charts

9 **INCORRECT**

We are monitoring a process that has an outcome that is normally distributed with a mean of 100 and a standard deviation of 10. We would use _____ to evaluate whether this process's variability is remaining in control.

A) *x*-bar charts

✓ **B)** *R*-charts

C) *p*-charts

D) *z*-charts

10 **INCORRECT**

We are monitoring a process that has an outcome that falls into one of two categories. We would use _____ to evaluate whether this process is remaining in control.

A) *x*-bar charts

B) *R*-charts

✓ **C)** *p*-charts

D) *z*-charts

11 **INCORRECT**

If a process that falls out of statistical control continues to produce a very large proportion of output that is acceptable, that process must be highly:

A) in control.

B) variable.

C) attributable.

✓ **D)** capable.

12 **INCORRECT**

The ratio of a centered process's specification width to its process width is called the:

✓ **A)** capability index.

B) control ratio.

C) index chart.

D) specification metric.

13 **INCORRECT**

If a process is not centered within its specification interval, use of the basic capability index, Cp, will lead to an assessment of capability that is:

A) unbiased.

B) too small.

✓ **C)** inflated.

D) invariant.

14 **CORRECT**

Suppose a process, when in control, has an average of 9 defects per unit. The lower and upper limits for the three-sigma control charts that would be used to monitor it would be, respectively,

A) 3 and 12.

✓ **B)** 0 and 18.

C) 6 and 24.

D) 4.5 and 13.5.

15 **INCORRECT**

Suppose that the grand process mean for a measured variable is 83. The upper control limit in the three-sigma control chart for this process's mean is 92. What would the lower control limit in the two-sigma control chart for this process's mean be?

A) 79

✓ **B)** 77

C) 71

D) 72

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Date: Mon Mar 05 2018 18:18:32 GMT-0500 (Eastern Standard Time)

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Section ID:

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