Question 1

A process is turning out end items that have defects of type A or type B or both. If the probability of type A defect is 0.1 and of a type B is 0.2, the probability that an end item will have no defect is

Options:

A- 0.7

B- 0.30

C- 0.72

D- 0.68

Answer:

C

Question 2

If the probability of a success on a single trial is 0.2 and 3 trials are performed, what is the probability of at least one success?

Options:

A- 0.008

B- 0.384

C- 0.488

D- 0.600

Answer:

C

Question 3

Question Type: MultipleChoice

If a distribution is skewed to the right

A- The mode is between the median and the mean.

B- The mean is between the mode and the median.

C- The mode is greater than the median.

D- None of the above.

Answer:

D

Question 4

Question Type: **MultipleChoice**

The distribution of a characteristic is negatively skewed. The sampling distribution of the mean for large samples is:

Options:

A- Negatively skewed.

B- Approximately normal.

C- Positively skewed.

D- Lognormal.

Answer:

B

Question 5

The hypergeometric distribution should be used instead of the binomial distribution when

Options:

A- There are more than 2 outcomes on a single trial.

B- Each trial in independent.

C- Sampling does not involve replacement.

D- There is a fixed number of trials.

Question 6

Question Type: MultipleChoice

According to Tchebysheff's theorem what % of measurements must lie within 2.5 standard deviations of the mean?

Options:

A- 3/4

B- 8/9

C- 0.840

D- 0.625

Answer:

C

Question 7

Determine the coefficient of variation for the last 500 pilot plant test runs of high temperature film having a mean of 900 Kelvin with a standard deviation of 54.

Options:

A- 6%

B- 16.7%

C- 6%

D- 31%

Answer:

A

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