

ENGINEERING STATISTICS(1)

Home

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ENGINEERING STATISTICS(1)

General

Quiz (1) Fall2020

Question 4

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Customers are used to evaluating preliminary product designs. In the past, 95% of highly successful products received good reviews, 60% of moderately successful products received good reviews, and 10% of poor products received good reviews. In addition, 40% of products have been highly successful, 35% have been moderately successful, and 25% have been poor products. If a new design attains a good review, what is the probability that it will be a moderately successful product?

- a. 0.6150
- b. 0.3415
- c. 0.9132
- d. 0.3636

Finish attempt ...

Airplanes need time to reach the intended elevation, this time is measured in minutes (and fractions of minutes). Let the sample space be positive, real numbers. Define the events A and B as follows: $A = \{x \mid x < 56\}$ and $B = \{x \mid x \geq 54.5\}$. The event $(A^c \cup B)$ can be described as:

- a. $\{x \mid 54.5 \leq x \leq 56\}$
- b. $\{x \mid x \leq 56\}$
- c. $\{x \mid x \geq 54.5\}$
- d. $\{x \mid 56 \leq x \leq 100\}$
- e. None of the above

ENGINEERING STATISTICS(1)

Home

My courses

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Quiz (1) Fall2020

Question 2

Not yet
answered

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1.00

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question

Computer language works with the zero one (0 or 1) setting with 6 possible digits. How many different orders are in the sample space of possible outcomes?

Answer:

Next page

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My courses

ENGINEERING STATISTICS(1)

General

Quiz (1) Fall2020

In the manufacturing of Soda cans, the sheet metal operation requires 4 notches, and 6 bends are required. If the operations can be done in any order, how many different ways of completing the manufacturing are possible?

Answer:

Next page

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Time left 0:12:55

In an automated filling operation, an electronic scale stops the manufacturing line after four underweight packages are detected.

Suppose that the probability of an underweight package is 0.001 and each fill is independent. What is the probability that 8 fills are done before the first underweight package is detected?

- a. 9.93×10^{-4}
- b. 8.95×10^{-3}
- c. 0.01
- d. 9.32×10^{-3}



Flag question

Time left 0:14:26

In an automated filling operation, an electronic scale stops the manufacturing line after five underweight packages are detected.

Suppose that the probability of an underweight package is 0.01 and each fill is independent. What is the standard deviation of the number of fills before the line is stopped?

- a. 1999
- b. 222
- c. 39600
- d. 49500



Not yet answered

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Time left 0:16:35

Flag question

In an automated filling operation, an electronic scale stops the manufacturing line after five underweight packages are detected. Suppose that the probability of an underweight package is 0.01 and each fill is independent. What is the mean number of fills before the line is stopped?

Answer:

Next page