

- (a) From the multiplication rule, $10^3 = 1000$ prefixes are possible
 (b) From the multiplication rule, $8 \times 2 \times 10 = 160$ are possible
 (c) Every arrangement of three digits selected from the 10 digits results in a possible prefix.

$$P_3^{10} = \frac{10!}{7!} = 720 \text{ prefixes are possible.}$$

2-46. A byte is a sequence of eight bits and each bit is either 0 or 1.

- (a) How many different bytes are possible?
 (b) If the first bit of a byte is a parity check, that is, the first byte is determined from the other seven bits, how many different bytes are possible?

- (a) From the multiplication rule, $2^8 = 256$ bytes are possible
 (b) From the multiplication rule, $2^7 = 128$ bytes are possible

2-47. In a chemical plant, 24 holding tanks are used for final product storage. Four tanks are selected at random and without replacement. Suppose that six of the tanks contain material in which the viscosity exceeds the customer requirements.

- (a) What is the probability that exactly one tank in the sample contains high-viscosity material?
 (b) What is the probability that at least one tank in the sample contains high-viscosity material?
 (c) In addition to the six tanks with high viscosity levels, four different tanks contain material with high impurities.
 What is the probability that exactly one tank in the sample contains high-viscosity material and exactly one tank in the sample contains material with high impurities?

(a) The total number of samples possible is $\binom{24}{4} = \frac{24!}{4!20!} = 10,626$. The number of samples in which exactly one

tank has high viscosity is $\binom{6}{1} \binom{18}{3} = \frac{6!}{1!5!} \times \frac{18!}{3!15!} = 4896$. Therefore, the probability is

$$\frac{4896}{10626} = 0.461$$

(b) The number of samples that contain no tank with high viscosity is $\binom{18}{4} = \frac{18!}{4!14!} = 3060$. Therefore, the requested probability is $1 - \frac{3060}{10626} = 0.712$.

(c) The number of samples that meet the requirements is $\binom{6}{1} \binom{4}{1} \binom{14}{2} = \frac{6!}{1!5!} \times \frac{4!}{1!3!} \times \frac{14!}{2!12!} = 2184$.

Therefore, the probability is $\frac{2184}{10626} = 0.206$

2-48. Plastic parts produced by an injection-molding operation are checked for conformance to specifications. Each tool contains 12 cavities in which parts are produced, and these parts fall into a conveyor when the press opens. An inspector chooses 3 parts from among the 12 at random. Two cavities are affected by a temperature malfunction that results in parts that do not conform to specifications.

- (a) How many samples contain exactly 1 nonconforming part?
 (b) How many samples contain at least 1 nonconforming part?

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Tobias Bleicker



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1. Understanding the eBook Applied Statistics And Probability For Engineers Answer Key
 - The Rise of Digital Reading Applied Statistics And Probability For Engineers Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Applied Statistics And Probability For Engineers Answer Key
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Applied Statistics And Probability For Engineers Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Applied Statistics And Probability For Engineers Answer Key
 - Personalized Recommendations
 - Applied Statistics And Probability For Engineers Answer Key User Reviews and Ratings
 - Applied Statistics And Probability For Engineers Answer Key and Bestseller Lists
5. Accessing Applied Statistics And Probability For Engineers Answer Key Free and Paid eBooks
 - Applied Statistics And Probability For Engineers Answer Key Public Domain eBooks
 - Applied Statistics And Probability For Engineers Answer Key eBook Subscription Services
 - Applied Statistics And Probability For Engineers Answer Key Budget-Friendly Options

6. Navigating Applied Statistics And Probability For Engineers Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Applied Statistics And Probability For Engineers Answer Key Compatibility with Devices
 - Applied Statistics And Probability For Engineers Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Applied Statistics And Probability For Engineers Answer Key
 - Highlighting and Note-Taking Applied Statistics And Probability For Engineers Answer Key
 - Interactive Elements Applied Statistics And Probability For Engineers Answer Key
8. Staying Engaged with Applied Statistics And Probability For Engineers Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Applied Statistics And Probability For Engineers Answer Key
9. Balancing eBooks and Physical Books Applied Statistics And Probability For Engineers Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Applied Statistics And Probability For Engineers Answer Key
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Applied Statistics And Probability For Engineers Answer Key
 - Setting Reading Goals Applied Statistics And Probability For Engineers Answer Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Applied Statistics And Probability For Engineers Answer Key
 - Fact-Checking eBook Content of Applied Statistics And Probability For Engineers Answer Key
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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