Subject - Math(Higher Level) Topic - Statistics and Probability Year - Nov 2011 - Nov 2019

Question 1

[Maximum mark: 6]

In a particular city 20 % of the inhabitants have been immunized against a certain disease. The probability of infection from the disease among those inanumized is $\frac{1}{10}$, and among those not immunized the probability is $\frac{3}{4}$. If a person is chosen at random and found to be infected, find the probability that this person has been immunized.

Question 2

[Maximum mark: 6]

A target consists of three concentric circles of radii 1 m, 3 m and 5 m respectively, as shown in the diagram.

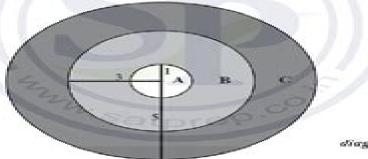


diagram not to scale

Nima shoots an arrow at the target. She has a probability of $\frac{1}{2}$ of hitting the target. If the arrow hits the target it does so at a random point on the target. Ten points are scored for hitting region A, six points for hitting region B, and three points for hitting region C. Find the expected number of points Nina scores each time she shoots an arrow at the target.

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Table of Contents Mathematics HI Paper 3 Statistics And Probability

- 1. Understanding the eBook Mathematics Hl Paper 3 Statistics And Probability
 - The Rise of Digital Reading Mathematics Hl Paper 3 Statistics And Probability
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Mathematics Hl Paper 3 Statistics And Probability
 - 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 Mathematics Hl Paper 3 Statistics And Probability
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Mathematics Hl Paper 3 Statistics And Probability

- Personalized Recommendations
- Mathematics Hl Paper 3 Statistics And Probability User Reviews and Ratings
- Mathematics Hl Paper 3 Statistics And Probability and Bestseller Lists
- 5. Accessing Mathematics Hl Paper 3 Statistics And Probability Free and Paid eBooks
 - Mathematics Hl Paper 3 Statistics And Probability Public Domain eBooks
 - Mathematics Hl Paper 3 Statistics And Probability eBook Subscription Services
 - Mathematics Hl Paper 3 Statistics And Probability Budget-Friendly Options
- 6. Navigating Mathematics Hl Paper 3 Statistics And Probability eBook Formats
 - o ePub, PDF, MOBI, and More
 - Mathematics Hl Paper 3 Statistics And Probability Compatibility with Devices
 - Mathematics Hl Paper 3 Statistics And Probability Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mathematics Hl Paper 3 Statistics And Probability
 - Highlighting and Note-Taking Mathematics Hl Paper 3 Statistics And Probability
 - Interactive Elements Mathematics Hl Paper 3 Statistics And Probability
- 8. Staying Engaged with Mathematics Hl Paper 3 Statistics And Probability
 - o Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathematics Hl Paper 3 Statistics And Probability
- 9. Balancing eBooks and Physical Books Mathematics Hl Paper 3 Statistics And Probability
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathematics Hl Paper 3 Statistics And Probability
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mathematics Hl Paper 3 Statistics And Probability
 - Setting Reading Goals Mathematics Hl Paper 3 Statistics And Probability
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mathematics Hl Paper 3 Statistics And Probability

- Fact-Checking eBook Content of Mathematics Hl Paper 3 Statistics And Probability
- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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