

Subject – Math (Standard Level)
Topic – Statistics and Probability
Year – Nov 2011 – Nov 2019
Paper -1

Question 1

Note: In this question, method marks may be awarded for selecting without replacement, as noted in the examples.

(a) $P(R) = \frac{6}{8} \left(= \frac{3}{4} \right)$

AI *N1*

[1 mark]

(b) attempt to find $P(\text{Red}) \times P(\text{Red})$

(M1)

e.g. $P(R) \times P(R) = \frac{3}{4} \times \frac{3}{4} = \frac{6}{8} \times \frac{5}{7}$

$P(2R) = \frac{36}{64} \left(= \frac{9}{16} \right)$

AI *N2*

[2 marks]

(c) **METHOD 1**

attempt to find $P(\text{Red}) \times P(\text{Blue})$

(M1)

e.g. $P(R) \times P(B) = \frac{6}{8} \times \frac{2}{8} = \frac{6}{8} \times \frac{2}{7}$

recognizing two ways to get one red, one blue

(M1)

e.g. $P(RR) + P(BR) = 2 \left(\frac{12}{64} \right) = \frac{6}{8} \times \frac{2}{7} + \frac{2}{8} \times \frac{6}{7}$

$P(1R, 1B) = \frac{24}{64} \left(= \frac{3}{8} \right)$

AI *N2*

[3 marks]

METHOD 2

recognizing that $P(1R, 1B)$ is $1 - P(2R) - P(2B)$

(M1)

attempt to find $P(2R)$ and $P(2B)$

(M1)

e.g. $P(2R) = \frac{3}{4} \times \frac{3}{4} = \frac{6}{8} \times \frac{5}{7}$; $P(2B) = \frac{1}{4} \times \frac{1}{4} = \frac{2}{8} \times \frac{1}{7}$

$P(1R, 1B) = \frac{24}{64} \left(= \frac{3}{8} \right)$

AI *N2*

[3 marks]

Total [6 marks]

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Table of Contents 14 Math Sl Tzpaper 1

1. Understanding the eBook 14 Math Sl Tzpaper 1
 - The Rise of Digital Reading 14 Math Sl Tzpaper 1
 - Advantages of eBooks Over Traditional Books
2. Identifying 14 Math Sl Tzpaper 1
 - 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 14 Math Sl Tzpaper 1
 - User-Friendly Interface
4. Exploring eBook Recommendations from 14 Math Sl Tzpaper 1
 - Personalized Recommendations
 - 14 Math Sl Tzpaper 1 User Reviews and Ratings
 - 14 Math Sl Tzpaper 1 and Bestseller Lists
5. Accessing 14 Math Sl Tzpaper 1 Free and Paid eBooks
 - 14 Math Sl Tzpaper 1 Public Domain eBooks
 - 14 Math Sl Tzpaper 1 eBook Subscription Services
 - 14 Math Sl Tzpaper 1 Budget-Friendly Options

6. Navigating 14 Math Sl Tzpaper 1 eBook Formats
 - ePub, PDF, MOBI, and More
 - 14 Math Sl Tzpaper 1 Compatibility with Devices
 - 14 Math Sl Tzpaper 1 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 14 Math Sl Tzpaper 1
 - Highlighting and Note-Taking 14 Math Sl Tzpaper 1
 - Interactive Elements 14 Math Sl Tzpaper 1
8. Staying Engaged with 14 Math Sl Tzpaper 1
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 14 Math Sl Tzpaper 1
9. Balancing eBooks and Physical Books 14 Math Sl Tzpaper 1
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 14 Math Sl Tzpaper 1
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine 14 Math Sl Tzpaper 1
 - Setting Reading Goals 14 Math Sl Tzpaper 1
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 14 Math Sl Tzpaper 1
 - Fact-Checking eBook Content of 14 Math Sl Tzpaper 1
 - 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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