

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

A1 N1

[1 mark]

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

(M1)

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

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

A1 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. $P(RR) + P(BR) = 2 \left(\frac{12}{64} \right) = \frac{6}{8} \times \frac{2}{7} + \frac{2}{8} \times \frac{6}{7}$

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

A1 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. $P(2R) = \frac{3}{4} \times \frac{3}{4} = \frac{6}{8} \times \frac{5}{7}$; $P(2B) = \frac{1}{4} \times \frac{1}{4} = \frac{2}{8} \times \frac{1}{7}$

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

A1 N2

[3 marks]

Total [6 marks]

Ib Math Sl 2011 Answers Paper 2

Rachel S Tattersall



Ib Math SL 2011 Answers Paper 2:

Ib Math Sl 2011 Answers Paper 2 Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Ib Math Sl 2011 Answers Paper 2**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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