

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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