

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]

# Maths Sl Ib Past Papers 2013

**Rachel S Tattersall**



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