



#02 Probability

Total points 5/5 ?



✓ Q1. One card is drawn from a pack of 52 cards. The probability that it is a king or a spade is *

$$\frac{1}{26}$$

Option 1

$$\frac{3}{26}$$

Option 2

$$\frac{4}{13}$$

Option 3



$$\frac{3}{13}$$

Option 4



✓ Q2. An urn contains 9 balls, two of which are red, three are blue and four black. Three balls are drawn at random. The probability that they are of the same colour is *

1/1

$$\frac{5}{84}$$

Option 1



$$\frac{3}{9}$$

Option 2

$$\frac{3}{7}$$

Option 3

$$\frac{7}{17}$$

Option 4



✓ Q3. Select the correct options *

2/2

$$P(\bar{A} \cap B) = P(B) - P(A \cap B)$$

Option 1



$$P(A \cap \bar{B}) = P(A) + P(A \cap B)$$

Option 2

$$P(\bar{A} \cap \bar{B}) = 1 - P(A \cup B)$$

Option 3



$$P(\bar{A} \cup \bar{B}) = 1 - P(A \cup B)$$

Option 4

✓ Q4. The probabilities of three mutually exclusive events A, B and C are given by $\frac{2}{3}$, $\frac{1}{4}$ and $\frac{1}{6}$ respectively. The statement *

1/1

is true

is false



nothing can be said

could be either

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