

Probability and Statistics Questions and Answers - Set Theory of Probability - 1

1. A and B are two events such that $P(A) = 0.4$ and $P(A \cap B) = 0.2$. Then $P(A \cup B)$ is equal to _____
- 0.4
 - 0.2
 - 0.6
 - 0.8
- Answer: a**
Explanation: $P(A \cup B) = P(A) + P(B) - P(A \cap B)$
 $= P(A) - P(A \cap B)$
 $= 0.6 - 0.2$ Using $P(A) = 1 - P(A)$
 $= 0.4$
2. A problem in mathematics is given to three students A, B and C. If the probability of A solving the problem is $\frac{1}{2}$, and B not solving it is $\frac{1}{4}$. The whole probability of the problem being solved is $\frac{3}{4}$, then what is the probability of solving it?
- $\frac{1}{4}$
 - $\frac{3}{8}$
 - $\frac{1}{8}$
 - $\frac{3}{2}$
- Answer: c**
Explanation:
 Let A be the event of A solving the problem
 Let B be the event of B solving the problem
 Let C be the event of C solving the problem
 Given $P(A) = \frac{1}{2}$, $P(\bar{B}) = \frac{1}{4}$ and $P(A \cup B \cup C) = \frac{3}{4}$
 We know $P(A \cup B \cup C) = 1 - P(\bar{A} \cap \bar{B} \cap \bar{C})$
 $= 1 - P(\bar{A}) P(\bar{B}) P(\bar{C})$
 Let $P(\bar{C}) = p$
 ie $\frac{3}{4} = 1 - (\frac{1}{2})(\frac{1}{4})(p)$
 $= 1 - \frac{p}{8}$
 $\Rightarrow P = \frac{1}{8} = P(\bar{C})$
 $\Rightarrow P(C) = 1 - P = 1 - \frac{1}{8} = \frac{7}{8}$
3. Let A and B be two events such that $P(A) = \frac{1}{2}$, While $P(A \text{ or } B) = \frac{3}{4}$. Let $P(B) = P$. For what values of P are A and B independent?
- $\frac{1}{8}$ and $\frac{3}{8}$
 - $\frac{3}{8}$ and $\frac{1}{8}$
 - $\frac{1}{8}$ only
 - $\frac{3}{8}$
- Answer: c**
Explanation: For independent events,
 $P(A \cap B) = P(A) P(B)$
 $P(A \cup B) = P(A) + P(B) - P(A \cap B)$
 $= P(A) + P(B) - P(A) P(B)$
 $= \frac{1}{2} + P - (\frac{1}{2})P$
 $= \frac{3}{4} = \frac{1}{2} + \frac{1}{2}P$
4. If A and B are two mutually exclusive events with $P(\bar{A}) = \frac{1}{2}$ and $P(B) = \frac{1}{3}$ then $P(A \cap \bar{B})$ is equal to _____
- $\frac{1}{6}$
 - $\frac{1}{3}$
 - 0, since mutually exclusive
 - $\frac{1}{18}$
- Answer: a**
Explanation: As A and B are mutually exclusive we have
 $A \cap B = \emptyset$
 And Hence
 $P(A \cap \bar{B}) = P(A \cap B^c) = P(A) P(B^c)$
 $1 - P(A) = 1 - P(B) = 1 - \frac{1}{3} = \frac{2}{3}$
 $P(A \cap \bar{B}) = \frac{1}{6}$
5. If A and B are two events such that $P(a) = 0.2$, $P(b) = 0.6$ and $P(A \cap B) = 0.2$ then the value of $P(A \cup B)$ is _____
- 0.2
 - 0.5
 - 0.8
 - $\frac{1}{5}$
- Answer: a**
Explanation: For independent events,
 $P(A \cup B) = P(a) = 0.2$

Probability And Statistics Question Paper With Answers Pdf

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1997 IEEE International Conference on Acoustics, Speech, and Signal Processing: Statistical signal and array processing, applications,1997

The Annals of Mathematical Statistics,1966 *Physical Review*,1998-09 *SBA and MTF MCQs for the Primary FRCA* James Nickells,Benjamin Walton,FRCAQ.com Writers Group,2012-05-10 Preparing for the Primary FRCA Wondering what to expect of the new SBA questions Help is at hand This practical book contains 60 single best answer and 120 multiple true false questions to help you revise for the Primary FRCA MCQ exam Each question is accompanied by detailed explanations giving additional information on each topic to enhance revision SBA and MTF MCQs for the Primary FRCA may be used both for examination practice and as a source of knowledge on many of the key topics in the syllabus A helpful introductory section gives practical advice on how to approach revision and sitting the exam From the writing team behind the FRCAQ website www.frcaq.com SAQs for the Final FRCA and SBAs for the Final FRCA this book provides challenging questions and well researched explanations to help you through the Primary FRCA MCQ paper An invaluable tool for your MCQ exam preparation

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Proceedings of the Business and Economic Statistics Section American Statistical Association. Business and Economic Statistics Section,1992

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[Technometrics](#) ,2004

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