

# Statistics and Probability [166 marks]

**Juliet is a sociologist who wants to investigate if income affects happiness amongst doctors. This question asks you to review Juliet's methods and conclusions.**

Juliet obtained a list of email addresses of doctors who work in her city. She contacted them and asked them to fill in an anonymous questionnaire. Participants were asked to state their annual income and to respond to a set of questions. The responses were used to determine a *happiness score* out of 100. Of the 415 doctors on the list, 11 replied.

- 1a. Describe **one** way in which Juliet could improve the reliability of her investigation. [1 mark]

## Markscheme

Any one from: **R1**

increase sample size / increase response rate / repeat process  
check whether sample is representative  
test-retest participants or do a parallel test  
use a stratified sample  
use a random sample

**Note:** Do not condone:

Ask different types of doctor  
Ask for proof of income  
Ask for proof of being a doctor  
Remove anonymity  
Remove response K.

[1 mark]

- 1b. Describe **one** criticism that can be made about the validity of Juliet's investigation. [1 mark]

# May 2013 Probability And Statistics Markscheme

**Ingram Olkin**



## May 2013 Probability And Statistics Markscheme:

**Studies in Probability and Statistics**, 1980      Counterexamples in Probability and Statistics Joseph P. Romano, Andrew F. Siegel, 1986      **Contributions to Probability and Statistics** Ingram Olkin, 1960      **Probability Theory and Mathematical Statistics with Applications** Wilfried Grossmann, 1988      **Probability Theory for Statistical Methods** F. N. David, 2007-03

PREFACE THE Author of this very practical treatise on Scotch Loch Fishing desires clearly that it may be of use to all who had it He does not pretend to have written anything new but to have attempted to put what he has to say in as readable a form as possible Everything in the way of the history and habits of fish has been studiously avoided and technicalities have been used as sparingly as possible The writing of this book has afforded him pleasure in his leisure moments and that pleasure would be much increased if he knew that the perusal of it would create any bond of sympathy between himself and the angling community in general This section is interleaved with blank sheets for the readers notes The Author need hardly say that any suggestions addressed to the case of the publishers will meet with consideration in a future edition We do not pretend to write or enlarge upon a new subject Much has been said and written and well said and written too on the art of fishing but loch fishing has been rather looked upon as a second rate performance and to dispel this idea is one of the objects for which this present treatise has been written Far be it from us to say anything against fishing lawfully practised in any form but many pent up in our large towns will bear us out when we say that on the whole a days loch fishing is the most convenient One great matter is that the loch fisher is dependent on nothing but enough wind to curl the water and on a large loch it is very seldom that a dead calm prevails all day and can make his arrangements for a day weeks beforehand whereas the stream fisher is dependent for a good take on the state of the water and however pleasant and easy it may be for one living near the banks of a good trout stream or river it is quite another matter to arrange for a days river fishing if one is looking forward to a holiday at a date some weeks ahead Providence may favour the expectant angler with a good day and the water in order but experience has taught most of us that the good days are in the minority and that as is the case with our rapid running streams such as many of our northern streams are the water is either too large or too small unless as previously remarked you live near at hand and can catch it at its best A common belief in regard to loch fishing is that the tyro and the experienced angler have nearly the same chance in fishing the one from the stern and the other from the bow of the same boat Of all the absurd beliefs as to loch fishing this is one of the most absurd Try it Give the tyro either end of the boat he likes give him a cast of ally flies he may fancy or even a cast similar to those which a crack may be using and if he catches one for every three the other has he may consider himself very lucky Of course there are lochs where the fish are not abundant and a beginner may come across as many as an older fisher but we speak of lochs where there are fish to be caught and where each has a fair chance Again it is said that the boatman has as much to do with catching trout in a loch as the angler Well we dont deny that In an untried loch it is necessary to have

the guidance of a good boatman but the same argument holds good as to stream fishing  
**Statistics** Raj Chandra Bose, 1964

**Essays in Probability and**

This book delves into May 2013 Probability And Statistics Markscheme. May 2013 Probability And Statistics Markscheme is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into May 2013 Probability And Statistics Markscheme, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
    - Chapter 1: Introduction to May 2013 Probability And Statistics Markscheme
    - Chapter 2: Essential Elements of May 2013 Probability And Statistics Markscheme
    - Chapter 3: May 2013 Probability And Statistics Markscheme in Everyday Life
    - Chapter 4: May 2013 Probability And Statistics Markscheme in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, this book will provide an overview of May 2013 Probability And Statistics Markscheme. This chapter will explore what May 2013 Probability And Statistics Markscheme is, why May 2013 Probability And Statistics Markscheme is vital, and how to effectively learn about May 2013 Probability And Statistics Markscheme.
  3. In chapter 2, the author will delve into the foundational concepts of May 2013 Probability And Statistics Markscheme. The second chapter will elucidate the essential principles that must be understood to grasp May 2013 Probability And Statistics Markscheme in its entirety.
  4. In chapter 3, this book will examine the practical applications of May 2013 Probability And Statistics Markscheme in daily life. This chapter will showcase real-world examples of how May 2013 Probability And Statistics Markscheme can be effectively utilized in everyday scenarios.
  5. In chapter 4, this book will scrutinize the relevance of May 2013 Probability And Statistics Markscheme in specific contexts. The fourth chapter will explore how May 2013 Probability And Statistics Markscheme is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, the author will draw a conclusion about May 2013 Probability And Statistics Markscheme. This chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of May 2013 Probability And Statistics Markscheme.

<https://splashdogs.com/data/publication/Documents/guide%20magazine%20parent.pdf>

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### May 2013 Probability And Statistics Markscheme Introduction

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