

Mathematics: applications and interpretation specimen HL paper 3 with comments

1. [27 marks]

Two IB schools (A and B) follow the IB Diploma Programme but have different teaching methods. A research group tested whether the different teaching methods lead to a similar final result.

For the test a group of eight students was randomly selected from each school. Both samples were given a standardised test at the start of the course and a prediction for total IB points was made based on that test; this was then compared to their points total at the end of the course.

Previous results indicate that both the predictions from the standardised tests and the final IB points follow a normal distribution.

It can be assumed that:

- the standardised test is a valid method for predicting the final IB points
 - that variations from the prediction can be explained through the particular circumstances of the student or school.
- a. Identify a test that might have been used to verify the null hypothesis that the predictions from the standardised test are normally distributed. [1]
- b. State why comparing only the final IB points of the candidates from the two schools would not be a valid test for the effectiveness of the two different teaching methods. [1]

The data for school A is shown in the following table.

School A

student number	Gender	Predicted IB points (P)	Final IB points (J)
1	male	43.2	44
2	male	36.5	34
3	female	37.1	38
4	male	30.9	28
5	male	41.1	39
6	female	35.1	39
7	male	36.4	40
8	male	38.2	38
Mean		37.31	37.5

- c. For each student the change from the predicted points to the final points ($J - P$) was calculated. Find

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Allison Paige Bruner



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Emerging Strategies in Research—Going Beyond Disciplinary Boundaries Santosh Dhar, Upinder Dhar, Nitu Katariya, 2023-04-17 Going beyond the disciplinary horizons is an emerging trend of research now a days It is becoming increasingly important for addressing society s most pressing needs Within the disciplinary framework the ability to solve problems through the generation of knowledge has traditionally been addressed from discipline specific perspective However it has become apparent that the research needed to address today s complex problems requires the expertise from multiple disciplines Trans disciplinary Interdisciplinary and Multidisciplinary contributions combined concepts and knowledge not only used by academicians and researchers but also other stakeholders in the civic society including representatives of the private sector public administrators and the public These contributions enable the cross fertilization of knowledge and experiences from diverse groups of people and contribute towards holistic vision of a subject as well as new explanatory theories Rather than being an end in itself this kind of research is a way of achieving innovative goals enriched understanding and a synergy of new methods

Ebook: Life-Span Development Santrock, 2016-09-16 Ebook Life Span Development

Design of Sampling Plan for Exponential Distribution Under Neutrosophic Statistical Interval Method Muhammad Aslam, The sampling plan using the classical statistics under the exponential distribution can be applied only when there are certainty and clearness and in observations and parameters But in practice it is not necessary that under some circumstances all the observations parameters are determined So we cannot analyze them using the classical statistics which provides results in the determined values The neutrosophic statistics which is the generation of classical statistics can be applied to the analysis when parameters observations are incomplete indeterminate and vague imprecise In this paper we will design originally a sampling plan for the exponential distribution under the neutrosophic interval statistical method The neutrosophic plan parameters of the proposed plan will be determined through the neutrosophic non linear problem The tables for various values of risk are presented for the use in the industrial An example from the automobiles manufacturing industry is given to explain for the exponential distribution under the neutrosophic interval statistical method

IB Math Studies Allison Paige Bruner, 2014-08-01 The International Baccalaureate IB was founded in Geneva Switzerland in 1968 as a non profit educational foundation that endeavored to develop inquiring knowledgeable and caring young people who would go on to create a better and more peaceful world through intercultural understanding and respect What began as a single program for internationally mobile students preparing for college has grown into a series of programs for students up to age 19 Barron s is pleased to offer a brand new review guide for the IB Mathematics Studies exam The content of the book is based on the curriculum and covers all topics required for exams beginning in 2014 It includes An overview of the exam including an explanation of scoring Thorough review and explanation for all curriculum subjects Extensive review and practice for each topic including Paper 1 and Paper 2 examples Three full length paper 1 and 2 practice exams with solutions

and comprehensive explanations Calculator instructions for the TI 84 and TI Nspire This all encompassing book also serves as a valuable resource during first year college math courses IB Math Studies in 50 Pages George Feretzakis,2019-07-20 This updated student friendly revision guide will be a valuable resource and reference for students assisting them to understand and learn the theory of IB Math Studies SL The guide aims to help the IB student by both revising the theory and going through some well chosen examples of the IB Mathematical Studies SL curriculum By presenting the theory that every IB student should know before taking any quiz test or exam this revision guide is designed to make the topics of IB Mathematical Studies SL both comprehensible and easy to grasp

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