

A Study of factors Measures Intelligence Quotient Using Statistical Tools and Techniques

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ABSTRACT:

Intelligence is the key to the survival of all living creatures to deal with day to day challenges. Intelligence quotient is determined by a number of factors which include both genetic as well as non genetic factors. Even though genetic factors play the major role in determining Intelligence quotient, various other modifiable environmental influences can influence the Intelligence quotient of an individual.in this article we study several factors who played the vital role in construction of Intelligence quotient using various statistical tools our study shows there is no significance difference between Mean of Intelligence Quotient of male and female. For all standard students of mental age (MA) is greater than current age (CA).

KEY WORDS: Graphical Representation, Small Test, Regression analysis , Level of significance, Intelligence quotient , P-Value.

INTRODUCTION:

The abbreviation " IQ " comes from the term *intelligence quotient*, first coined by the German psychologist William Stern (1900) This term was later used in 1905 by Alfred Binet and Theodore Simon, who published the first modern intelligence test, the Binet-Simon intelligence scale. Because it was easy to administer, the Binet-Simon scale was adopted for use in many countries. Intelligence was and will be an elusory concept. Researches were founded, studies were done and papers were reacted where as a clear definition of intelligence is not yet defined Intelligence is simply the ability to understand, plan, think, talk, rationalize and appreciate. Even though it could be an understanding concept, but it is really not. The human intelligence is related directly to cognition, emotions and experience of person; therefore, we could say comfortably that it is the most complicated system by for measure *intelligence quotient*.Intelligence Quotient scores are used for educational placement and evaluating job applicants. Even when students improve their scores on standardized tests, they do not always improve their attention such as memory, attention & speed. They are also used to study distributions of psychometric intelligence in populations & the correlation between it& other variables.This study is mainly with Intelligence Quotient and its correlations with 8 factors that were gathered to data and intelligence evaluation. We are going to compute different statistical tests (multiple regression , z-test)to see if there is dependence between the variables and Intelligence Quotient scores .The utilized variables are gender, MA , CA , listening.