

STUDY THE LINEAR RELATIONSHIP BETWEEN THE INTELLIGENCE AND GEOMETRY ACHIEVEMENT OF THE STUDENTS

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ABSTRACT

The point of the current examination was to study and analyze the task persistence, parental conduct, intelligence and geometry achievement of the male and female students and furthermore to anticipate the numerous and linear relationship among the indicators (task persistence, parental conduct and intelligence) and measure variable (geometry achievement) of the students. Invalid speculation were outlined in the current examination. Remembering the idea of the issue, the scientist was followed the Descriptive Survey Method. Intelligence, Task-persistence and Parental conduct treated as autonomous factors and Geometry Achievement as reliant variable though sex was considered as moderate variable in the current investigation. It was reasoned that there exists no critical separation found among male and female students comparable to task persistence, parental conduct and intelligence and geometry achievement of the students.

Keywords: Task Persistence, Intelligence, Geometry Achievement, Students

INTRODUCTION

India embraced another National Policy on Education (NPE) inscribed 10+2+3+2 instructive framework in 1986. The framework required up to all principles of schooling from the rudimentary to the higher. The initial five years are intended for rudimentary instruction (classes first to fifth). The subsequent one is five - year of center instruction (classes sixth to tenth) and a two-year upper center schooling. The most recent long term for higher

investigation. At the center stage, students are acquired crucial schooling in uncommon subjects. At the remainder of this stage, researchers who are not instructively based could pick proficient training in proficient schools and universities. The destinations of senior auxiliary school (SSS) at being complete and seek to acquire a characterized educational plan with central subjects courses.

Ever from the special cases of NPE-1986, instruction in India has turned into a wide government progression that has seen a creating goal of Government's inclusion and direct association. The cutting edge time, schooling in India has been declaring as gadget standard prevalence for affecting country's development and accomplishing the country's objectives.

The public instructive objective to which its schooling at reasoning is connected included others: the gathering of appropriate abilities, skill and adequacy both intellectual and physical as instrument for the individual to live in and use to the development of the country. NPE lays zeroed in on science and innovation. Along these lines, the framework gives a lot of significance to the investigation of science. Math precisely talked about as the Mother, everything being equal, plays a significant part to play in the investigation of present day scholarly patterns.

It is said to see that even today, following 68 years of Independence, the instructive framework in India remains basically assessment situated. By this framework, students don't learn math study. They ordinarily managed the cost of their self passing the assessments. Moreover a condition not just harms the reason for all the instruction yet additionally demonstrates ruinous for math training. Students retain significant outcomes and verifications to have the option to 2 imitate them in assessments. The outcome is that accomplishment in assessment has turned into every one of the significant destinations in numerical schooling. The outcome is that accomplishment in assessment has turned into the extremely significant destinations in numerical instruction. Assuming we need to make numerical schooling more significant we should survey and reoriented the whole arrangement of instruction.

The present world is the universe of innovation; Mathematics is the entryway of all information. It is the reflection of civilization. Science played a significant part in the turn of events and progress of human race. In Vedas additionally math is got in significant spot. Numerology depends on math.

"Spatial sense is the natural attention to one's environmental elements and the items in them. Geometry assists us with addressing and depicts objects and their interrelationships in space.

Spatial sense is vital for comprehension and liking the numerous mathematical parts of our reality. Students foster their spatial sense by envisioning, drawing and looking at shapes and figures in different positions." Ontario Ministry of Education, 2005

The National Council of Teachers of Mathematics perceives the significance of Geometry in its distribution schedule and estimating guidelines for scholarly math. Geometry is a mix of two words-Geo + metry which implies estimation of earth. It has two overlap esteems. It gives information and empowers students to do things legitimately and to foster intelligent intuition without which geometry can't be perceived. From when the child conceived and a couple of months old, becomes mindful of its environmental factors, he seeing and retaining spatial relationships and properties. The store of crude mathematical thoughts obtained from day by day experience and perception is shockingly huge; we should assist the kid with turning out to be all the more completely mindful of these ideas, and to broaden their reach and use. He will have an idea of distance and will have noticed shapes, both plane and strong. An idea of heading will be set up; flat and vertical bearings will be notable, along with something of the relationship between them.

It is most far-fetched that he will utilize the specialized terms to depict them, or have the option to articulate his thoughts in definite language, however the crucial thoughts are there. Some portion of the instructor's task is to urge the student to utilize the language of geometry to communicate these normally noticed relationships and properties. He will have a feeling of evenness; an important beginning stage for some mathematical properties. The geometry educating gives a mass of mathematical realities. The mathematical standards of fairness, balance and closeness are embedded in the idea of things. It fosters the capacity to draw precise plans. It is valuable in designing, machine shop, development, ventures, scene, engineering, inside beautification and so on It is the way to numerical reasoning. Educating of 4 geometry ought not be taken up before middle school stage. Regularly it ought to being in class seventh and go up to higher optional stage. At the higher optional stage there might be a greater amount of cutting edge geometry. Instructor ought to continue from easy to complex and from cement to extract issues.

Stages of Teaching of Geometry

Educating of geometry ought to be separated into the accompanying three phases :

- i. Experimental stage
- ii. Deductive stage

iii. Systematic stage

The above division depends on the substance material of subject and mental prerequisites of the students. As indicated by the Commission on Mathematics there are three principle destinations for the investigation of geometry in secondary schools. They are:

1. The securing of data about mathematical figures in the plane and in space
2. The improvement of a comprehension of the deductive technique as a perspective, and a sensible expertise in applying this strategy to numerical circumstances
3. The arrangement of chances for unique and imaginative reasoning

TASK PERSISTENCE

Feather (1962) characterizes that "The overall worldview of the persistence circumstance is that where an individual is gone up against with a truly challenging or insoluble task and is unhindered in either the time or number of endeavors he can work at it." So we can say that Task persistence is a critical part of intellectual execution and scholarly inspiration and achievement, and furthermore is connected with less conduct and self guideline issues, for example, those characteristic of consideration deficiency issues.

PARENTAL BEHAVIOUR

Grolnick and Slowiaczek (1994) express that "Parental contribution is characterized as the devotion of assets by the guardians to the youngster inside a given area". Above definition examined that there is a recognized families association with the kid and execution in the rudimentary schooling. On account of families profound quality, time holding and asset draws near, they might choose to, or be educate to, give their time and energies to areas recognize (i.e., to school, social exercises, sports).

GEOMETRY ACHIEVEMENT

Geometry is a school subject which is a part of arithmetic. The beat of a country can be felt by the manner by which it raises its kids and the kind of instructive exercises it gives to its residents. Its fate not set in stone in its study halls. In our logical arrangement of school instruction science plays an unequivocal part to play. Geometry the crown of science, needs to assume a unique part in honing the logical thinking about our future residents for understanding the diverse issues of our nation as upon their answer depends eventually the honesty and opportunity of our country. We live in a particularly world which comprises of

such countless mathematical structures. Kids see the mathematical figures like circle, square shape, triangle, point, circle, chamber, cone and so forth in their regular routine. They are a lot of acquainted with coins and wheel as roundabout figures, ball and oranges as circular figures, entryways and dividers as rectangular figures, expansion as tapered figures, etc. A decent instructor can foster an interest and uplifting outlook towards the investigation of geometry through his successful educating.

Geometry Achievement With Intelligence

Achievement in all disciplines is the consequence of a blend of different variables which incorporates character attributes and intellectual capacities. The student should relate novel plans to be figured out how to the information which he as of now has. The conditions needed for significant learning are (1) coherently significant material; (2) a student who has suitable thoughts in his intellectual construction; and (3) the aim of the student to make the learning significant. In the event that the student expects essentially to remember the learning material, repetition learning will happen. The connection among intelligence and scholastic achievement is a grounded reality. [Freeman (1962), Lindgren (1976)].

Table 1 : Related research studies in relation to Intelligence and other variables

S. No	Variables	Researcher's Name by which the variables studied in relation to Intelligence
1	Mathematical Aptitude and Mathematics Achievement	Pandey (2012), Sanny F. (2011), Gehlawat (2011), Mohan (2009), Taub et al (2008), Sumangala (1998) & Anand and Usha (1981).
2	Creativity, Selfesteem, Self Concept and Family Relation	Habibollah (2009), Gakhar, SC (2006), Agrawal (1999), Archana Agrawal (1997) and Hussain (1991)
3	Academic Achievement	Habibollah (2009), Aanandmani (2006), Sumangala (2006), Gakhar, SC (2006), Panigrshi (2005), Varte, Lalhunlawma (2005), Agrawal (1997) & Aal-Hussain (1991)

4	Socio-Economic Status	Panigrshi (2005), Agrawal (1999), S.K Shukla (1997) & Abdulqader (1991)
5	Achievement in Physics and English	Naseem, C. (1991) and Smita Trivedi (1991)

The table 1 showed that there was a positive relationship among intelligence and different factors. Be that as it may, no examination has been found with mathematical achievement. So that in the current examination analyst will discover the relationship among intelligence and mathematical achievement.

Geometry Achievement with Task persistence

Persistence has not been the subject of broad exploration in past years; it is a phenomenal characteristic in current life. It has been concentrated sporadically since the beginning of this century. It was considered as a significant everyday issue (Fernald, 1926), as "the limit with regards to proceeded with arrival of energy" (Ryans, 1938, p.71), or as an objective situated activity (Hebb, 1949). A later methodology is introduced by Feather (1962) who expressed "The overall worldview of the persistence circumstance is that wherein an individual is stood up to with an extremely challenging or insoluble task and is unhindered in either the time or number of endeavors he can work at it."

A survey of the writing in the space of task persistence has shown that it emphatically identifies with other significant components of human existence, for example, intelligence (Eysenck, 1953; Harshorne, May, and Maller, 1929), achievement in school (Dubey, 1982; Mukherjee, 1974), accomplishment in ones job (Stephenson, 1961). Task persistence is one part of self directed consideration, discernment and conduct that is essential for more extensive arrangement of leader capacity and demeanor. Task persistence is a vital part of intellectual execution and scholastic achievement, and furthermore is connected with less conduct and self guideline issues, for example, those demonstrative of consideration shortage problems. The investigation of Maqsud (1992) shows that achievement is decidedly and, essentially related with the task persistence. Which Maqsud depicts "As an inspirational state wherein student is worried about principally assessing himself and creating dominance tasks; he keeps on building his conviction that more prominent endeavors yield more noteworthy

capability" (p.14). Mathematics homeroom guidance is for the most part coordinated around and conveyed through students exercises on numerical tasks (Doyle, 1988).

Geometry Achievement with Parental Behaviour

Great nurturing is significant for the suitable development of a kid. Guardians are the vital specialists of the kid. There is a favored liability of setting up the kid for the general public and the way of life. In the family job of the guardians is vital. Guardians show up as "connect" by which the kid additionally arrives at the rest of the world. They assume a huge part in the fulfillment of kid's requirements and agonizing encounters. A sound parent-kid relationship prompts the sensation of being cherished and acknowledged, with a serious level of self-assurance and non reliance. The measure of compatibility that exists between the guardians and the kids decides how much the kids retaining themselves the goals and desires set for them guardians. It is a higher priority than how a kid deciphers his parental activities and goals in compromise of day to day existence. Parental conduct towards a kid can likewise firmly decide how well the Childs accomplish social closeness, individual independence and the comprehension of his place in his social climate. Various guardians' utilization various styles to impart and to teach their kids. The family assumes an essential part in fostering the character and mingling the person. Family is the main school and guardians are the principal instructors of the kid. There is a well-known adage that "so is the guardians similar to the kid." Most of the clinchers in the auxiliary and higher optional assessments uncover that their parent's backings and instructors' direction assist them with accomplishing the excellent grades. The investigations of Henderson and Besla (2002) uncover that when guardians are associated with their kids' schooling at home, they improve in school.

CURIOSITY AND DRIVE

The reactions against achievement in school subject especially in geometry functioned as a driving and persuasive power to take up this examination and to check the relationship of intelligence, task persistence and parental conduct with achievement in geometry. The agent has likewise been a lot of inspired by geometry since her school days.

OBJECTIVES OF THE STUDY :

1. To examination the task persistence and intelligence of the male and female students.

2. To foresee the linear relationship between the intelligence and geometry achievement of the students.

REVIEW OF LITERATURE

Dr. Rajnish Pandey (2012) examined that "An investigation of Mathematical Aptitude in connection with Intelligence and SES of Class VI Student." Purposive irregular testing was utilized for drawing the example of 124 students with 62 young men and 62 young ladies of class VI. These students had a place with five Government schools arranged in the metropolitan space of Née mach town of Madhya Pradesh These schools followed the schedule of State Board Madhya Pradesh. Selfdeveloped Mathematical Aptitude Test. Intelligence Test dependent on General Mental Ability Test for kids (GMATC) 7-11 years. Self - created survey for Socio-Economic Test was controlled on the example. The measurable strategies utilized in the examination of the information were Mean, S.D, t-test, Persons' coefficient of connection. The discoveries uncovered that the young men and young lady, of class V concentrating in Government schools don't vary fundamentally on their SES status scores accordingly the current examination uncovers that there is no impact on sex of Socio-financial status of class V students of Government Schools. The numerical inclination of class V students of Government schools is fundamentally related with their intelligence. There doesn't exists a huge relationship between numerical inclination and financial status of class V students contemplating the Government schools and There exists no imply, relationship among intelligence and Socio-monetary status of Cass V students concentrating in the Government schools.

Ms. Manju Gehlawat (2011) explored that "Numerical Aptitude and Intelligence of Class V Students In Relation To Their Demographic Variables." In present examination specialist utilized illustrative study technique. The example comprised of 120 students of class fifth drawn from the five school of the Itarsis (M.P) choosing 60 young men and young ladies from provincial and metropolitan government and tuition based schools. Numerical Aptitude Test created by the specialist, General Mental Ability Test by (Dr. R.P Srivastava and Kiran Saxena) was regulated on the example. Discoveries of the investigation uncovered that there is no huge distinction in the numerical inclination of class fifth students concerning their sexual orientation and no huge contrast was found in the intelligence of the class fifth

students regarding their sex and there is a critical and positive relationship between numerical fitness and intelligence of class V students.

Naderi, Habibollah (2019) examined that "Relationship between Intelligence, Creativity, Self-regard and Academic Achievement of Iranian Undergraduate Students in Malaysian University." The example comprised of 150 Iranian college students. The apparatus utilized was intelligence, inventiveness, confidence and scholastic achievement for gathering the information. The discoveries show that there was huge contrast among male and female students on confidence. Intelligence, innovativeness, sex, age was not huge factors in clarifying the change of scholastic achievement

Aanandmani, Ajit. (2016). Examined that "An investigation of general intelligence and enthusiastic intelligence according to achievement among ninth class students." Hundred ninth class students were chosen for the examination. General intelligence test, enthusiastic intelligence scale and achievement test were managed on the example. Result uncovered that kid's achievement is emphatically identified with intelligence yet it isn't essentially identified with passionate intelligence. For young ladies, achievement isn't essentially identified with intelligence just as passionate intelligence and contrast between mean of enthusiastic intelligence score of young men and young ladies isn't huge at 0.05 levels.

Chamundeswari and Sumangala (2016) directed an examination on "General Mental Alertness and Intelligence according to Academic achievement of students at the optional level." on an example of 291 students (145 boys and 146 young ladies) at the auxiliary level in various kinds of schools. They found that there was critical distinction between intelligence of students at the auxiliary level in various kind of schools for example Govt. also, Govt. helped, Matriculation and Corporation, enterprise and Govt. helped and Govt. also, Matriculation schools. Additionally there was no huge distinction between intelligence of students at the optional level in govt. also, registration and enterprise and Govt. schools. There was critical connection among the factors, mental sharpness, intelligence, achievement in math and English of students at the auxiliary level in various kinds of schools.

Manhas, Kajal Devi and Gakhar, SC (2016) considered that "EQ as relates of IQ, imagination and scholastic achievement". 400 ninth class students were chosen for the investigation. Intelligence, passionate intelligence, innovativeness and scholarly achievement stock were controlled on the example. Result shows that positive and huge relationship of passionate intelligence with these three factors.

Varte, C.L, Zokaitluangi and Lalhunlawma (2015) examined that "Intelligence and scholarly achievement according to parent kid relationship." One forty Mizo young people taken from class ninth. Intelligence test, nurturing scale and scholastic achievement test were controlled on the example. The investigation uncovered that no sex distinction found on parent-youngster relationship, intelligence and scholarly achievement, one way ANOVA demonstrated critical 'treatment' impact on intelligence score and 2×2 ANOVA showed huge nurturing impact, while sexual orientation nurturing cooperation result non huge F proportion.

Dr. Arun kumar Kulshrestha (2012) Studied that "Intelligence and SexDifference among school going kids." The students were chosen haphazardly from two schools of Ajmer city. The investigation was led on 120 students, taking 20 young men and young ladies from 6 th, seventh and eighth grade. The age range for the grade sixth, seventh and eighth should lie between 11+ to 12 years and 12+ to 13 years individually. Raven's (J.C) Colored Progressive Matrices (CPM) test was utilized to gauge the intelligence of the student. The outcome shows that the presentation of young men is superior to the young ladies in the grade sixth and 7th. The execution of the young men and young ladies of grade eighth is practically same level.

RESEARCH METHODOLOGY

METHOD

Remembering the idea of issue the specialist has conveyed the current investigation on the lines of Descriptive Survey Method for the examination of the information

VARIABLES

In the current examination, autonomous variables were thusly:

1. Intelligence
2. Task-persistence
3. Parental conduct

In the current examination Geometry Achievement was taken as reliant variable

POPULATION AND SAMPLE

In the current examination, the agent chose to direct the current investigation on the sample of ninth class male and female students those concentrated in the school associated to C.B.S.E board situated in Agra city because of some managerial conditions and homogeneity environmental factors. There were 42 schools situated in Agra city and partnered to C.B.S.E board. From the rundown of schools, 10 schools were chosen however straightforward random method which was almost 25% of the absolute schools situated in the Agra city.

TOOLS

For the determination of the intelligence test examiner at first overviewed the exploration writing and tracked down a few verbal, non verbal and standardized tools built by the different writers. Different test were done some of them are General Mental Ability Test for Children, Group Test of Intelligence, Group Test of Intelligence, Verbal Intelligence Test and so on

PSYCHOMETRIC PROPERTIES

Dependability : Reliability implies the degree to which a test is predictable and stable in what it measure and gives trustworthy and consistent outcome. Unwavering quality has been concentrated by two methods: one which concerns the security of the action as far as time and the other includes the inside consistency of the test.

Legitimacy : Validity concerns how much a test measure what it professes to gauge. The thing legitimacy has as of now been accounted for.

RESULT

Comparable to foresee the linear relationship between the task persistence and geometry achievement of the students, the agent processed the coefficient of connection, coefficient of determinant, examination of fluctuation (ANOVA) and beta incentive for predication of the linear relationship. The coefficient of correlation(R) between the indicator variable 'task persistence' and rule variable 'geometry achievement' was discovered 0.469 which is exceptionally certain and critical at 0.01 degree of certainty. The coefficient of assurance (R²) for the indicator variable 'task persistence' and measure variable 'geometry achievement' was found 0.22; consequently it can say that 22% of normal difference accounted by the indicator variable 'task persistence' and rule variable 'geometry achievement'.

The agent likewise processed the investigation of fluctuation (F-worth) to consider the critical job of 'task persistence' for forecast of the model variable 'geometry achievement'. F-esteem was discovered 112.17 comparable to examine the huge impact of the task persistence on the geometry achievement which is huge at 0.01 level of the certainty.

CONCLUSION

It is closed from the discoveries of the current examination that there were tracked down no critical segregation among male and female students comparable to task persistence, parental conduct and intelligence and geometry achievement of the students. These outcomes likewise trust with the consequences of the examinations Alam (1995). From the discoveries identified with linear relationship, it is inferred that the task persistence, parental conduct and intelligence with geometry achievement of the students reflected positive and high connection and likewise different connection of task persistence, parental conduct and intelligence with geometry achievement discovered high and critical. It is likewise inferred that task persistence, parental conduct and intelligence fundamentally impacts (F-values found critical at 0.01 level) the geometry achievement of the students. These outcomes additionally trust with the discoveries of Xin Ma (1999), Breen and Joan (2010), Shimizu (2010) and Olatoye (2010).

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