"PARELTAL INPLUENCES UPON STUDENTS"

EDUCATIONAL AND OCCUPATIONAL

ASPIRATIONS"

BY

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"A Thesis submitted in part fulfilment for the Degree of Master of Arts in the University of Nairobi"

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AUGUST 1976



"This thesis is my original work and has not been presented for a degree in any other University"

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"This thesis has been submitted for examination with my approval as University Supervisor"

Signed Decl ~.... 20-9 Date

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The responsibility for the study as here presented however, lies entirely with the author.

UNIVERSITY OF NAIROBI 1976

PRISCILLA N. KARIUKI

ABST RACT

"Parental Influences upon Students" .

Educational and Occupational

Aspirations".

This study examines the relationships between Parents' Educational Attainment, their Occupational Status, and students' Educational and Occupational Aspirations.

The data was obtained by administering a questionnaire to two hundred secondary school students. Ninety-six of the students were in Form Four (eleven years of formal education) while one hundred and four of the students were in Form Ona (eight years of formal education). Among the subjects, there were seventy girls and one hundred and thirty boys.

The subjects came from three Secondary Schools. Two of these schools were in the rural areas, and one was in the outskirts of the city of Nairobi.

The Educational Aspirations of the students was measured by asking the students, the level of education they would like to attain after their school certificate examination. The subjects were asked to look realistically at their future and the chances that may be available for furthering their educational plans.

The Occupational Aspirations of the students was measured by asking the students the kind of occupation they would like to obtain, if all the necessary training was made available.

The results showed that the sex of the subjects was significantly related to their educational and occupational aspirations. Similarly, the level of education attained by the respondents was significantly related to both their educational and occupational aspirations. The results also indicated that both the educational and occupational aspirations of the respondents are related to their parents' level of education and the status of their parents' occupations. The fathers' education clearly emerged as a very important factor in the overall relationship to both educational and occupational aspirations of the respondents. Those respondents who came from well placed families, had generally very high aspirations.

These findings shed some light upon the kind of parental factors, namely, the fathers' and mothers' education and occupations, which are related to the formation of the students' educational and occupational aspirations.

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CHAPTER ONE INTRODUCTION

Many psychologists and educationalists in recent years, have shown keep interest in educational and occupational aspirations of students. (Foster 1968; Clignet 1966; Sewell 1968; King 1971; Sectorson 1970). These studies have mainly focused on the "ideal" and the "real" aspects of aspirations. An "ideal" aspiration satisfies a person's idea of what is good or perfect. It exists only in the imagination, or as an idea, and as such is unlikely to be achieved. A "real" aspiration on the other hand, exists in fact, and as such is likely to be achieved.

Research results indicate that educational and occupational aspirations are influenced by such factors as scho<u>ol type</u>: school <u>quality</u>; examination marks and a student's socioeconomic background. The parent's education and occupation also influence the student's aspirations now, and in future.

It has been indicated by some studies, (Somerset 1970; McQueen 1965; Rehberg 1967) that students, especially in developing countries, have or seem to have unrealistic educational as well as occupational aspirations. Since the ways in which students form correct aspirations are not directly connected with the school's formal curriculum - are not directly taught in the classroom - students find themselves faced with great difficulty in their choice of jobs and other educational goals, towards the end of their school career. This has often meant that wrong and unrealistic choices, full of fantasy, have been made by students. This is mainly as a result of lack of correct information about what to expect and what is available. It would seem that the school must play an important role, if students are to choose realistic educational and occupational goals.

For the rural high school student, the problem appears even greater because, unlike his urban counterpart, he has limited opportunities of meeting people of various professions, and hence, of learning about the available job opportunities. His environment is not as rich. He is therefore less equipped to deal with the various occupational choices and to achieve the appropriate educational goals in the future. Faced with such a situation, he often makes incorrect choices.

Observation has shown that the way in which parents act as a primary reference group for students is related to their educational and occupational aspirations. (Silvey 1969; Simpson 1962; Weeks 1967). The parents furnish some kind of work role models with which the student can identify. They also transmit a set of values about work in general, and certain types of work in particular. This means that the parents function, to a large extent, as social reinforcers of the student's educational as well as occupational aspirations. (Mussen 1969; Boyle 1966).

The most crucial problem that faces a study of educational and occupational aspirations, is the measurement of aspirational

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levels. Studies of this kind have often asked students what they <u>would like</u> to do and what they think they have <u>reasonable</u> <u>chances</u> of doing (Somerset, 1970; Foster 1968). A lot of fantasy and unrealism is reflected in the way these questions are answered. For instance, a student may say that he would like to be an engineer and then indicate a certain level of educational attainment which makes his choice unrealistic. Thus it becomes very difficult to evaluate the answers given in terms of realism.

Another problem is that research directed to finding the relationship between educational, or occupational, aspirations and parental influences is scanty.

Although all channels of education are used to further vocational goals, we still find that studies have not focused on the kind of jobs that students eventually obtain. This necessitates a follow-up of students after they leave school. In addition to this, there are substantial differences between the inclinations of the students, and the occupational opportunities likely to be open to them.

The way in which students evaluate the meaning of their education is an important guide to the expectations and aspirations which they hold about future careers. For this reason, questions on what education means to the students go a long way to indicating the kind of jobs they hope to obtain after school.

The examination taken at the end of fourth form is an

* 3

important threshold in the Kenyan educational system. It is at this level that many students today leave school. Those who continue for higher education have good chances of going on to University, and hence of obtaining good jobs. If the aspirations of those students who cannot continue their education are not properly adjusted to the realities, innumerable problems and frustration follow.

The rural fourth-form leaver offers a unique opportunity for study, since his non-formal education on available job opportunities is almost non-existent. From such a study, we may be able to determine how he conceives his educational and occupational aspirations. An understanding of the student's problems, in terms of his needs, may assist teachers and school counsellors to help the student to adjust to the outside world.

Since the rural adolescent sees education as the only possible way for a job, it is hoped that the study will reveal the problems he encounters, and hence the way in which he can be assisted.

The expansion of formal education in Kenya, has led to a decline in the occupational returns to a given level of education. Thus, an understanding of how students form their educational and occupational aspirations before they leave school is useful. It might mean that the students need more information on the nature of jobs which are highly preferred, but which are scarce.

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This indicates that an intensive effort to inform students of the occupational realities which confront them after school is indicpensable. Implicit in this, is the fact that teachers should play a greater role in advising students. This will help the students make proper adjustments to the realities of a rapidly closing opportunity system.

In addition to this, the kind of influence that parental education or occupation has on student's aspirations might also be useful. It may reveal something about the school system and the society which has shaped it. Such information is useful to planners and administrators. They may use it to identify some of the ways in which the contemporary secondary school system is being used to integrate student's motivations with the social and economic requirements of the country.

The manpower planner, as well, needs to know how a student's educational plans are related to the most productive periods of his life. Such information will provide the basis of a comprehensive vocational information and guidance system in the present day secondary schools.

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CHAFTER TWO

P VIEL OF LITTRATUTE

Somerset (1970) made a detailed study of aspirations among secondary school students in Kenya. His sample consisted of twenty-one randomly selected schools from all over Kenya. Seventeen of the schools were boys' schools, two were co-educational and two were girls' schools. Data were also obtained from three schools which were not in the sample. "This was done in order to cover as fully as we could the complete range of types of secondary schools found in Kenya".

His study had two main questions concerning student's aspirations and expectations for further education and training. Firstly, the students were asked how far they <u>wanted</u> to continue their education. Secondly, they were asked how far they thought they would be <u>able</u> to continue. Somerset anticipated that the questions would produce very different answers. However, eighty-eight per cent of the sample answered the two questions in exactly the same way. Only about five per cent of the sample said they would like to continue their education to a higher level than they thought would be possible.

Somerset points out that the students experience seems to have affected both their expectations and their aspirations. He also shows that the type of school that the student attends is strongly associated with how far he wants to continue his education. He uses three types of schools to illustrate this point: - National Catchment, Local Catchment and Harambae Schools. National Catchment Schools are defined as those schools that recruit their students from all over the country. They make selections of intake before other secondary schools, and attract teachers of high calibre. Their physical equipment is of a high standard. The Local Catchment Schools draw most of their intake from a smaller area by contrast. They charge relatively low fees and are aided by the Government. Harambee Schools are those built by local self-help initiative, in response to the shortage of places in government maintained schools. Their intake is largely non-selective and staff is rather poor compared with other types of schools.

Somerset shows that students at National Schools have high aspirations. More than two-thirds want to continue their education through to higher school certificate, and about three-fifths hope to go to University. By contrast, more than three-quarters of the students in Harambee schools are not aiming at anything more than a pass in the school certificate examination at the end of their fourth year. The aspirations of students in local catchment schools are intermediate in character, but are much closer to those of Harambee school students, than they are to those of students in National Schools.

Apart from the type of school that the student has attended, Somerset shows that educational aspirations are

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strongly correlated with school certificate performance. Students who want to continue their education to higher school certificate or University tend to have much better marks than those who want to leave school after the school certificate examination.

Somerset concludes that; "reality factors are of major importance in determining the aspirations which fourth-form pupils have for further education. Pupils understand clearly that selection for form five is severe — that their chances of further education hinge upon their academic achievement —". Somerset shows that not merely ability, but also school quality and the students' background factors, affect educational aspirations.

Silvey (1969) surveyed over five hundred fourth-form students in ten secondary schools in Uganda. He asked them what they hoped to do after completing senior four. Only one per cent in his sample said that they hoped to leave school and find a job. The rest wanted to go on to "higher school certificate" class, and they felt that their chances of doing so were good though not certain.

Silvey also asked his respondents, "What do you think are the two most important aspects of a job to consider?" when thinking about your first job. His results show that sixty-two per cent of his sample specified, "interest in the job"; fourty-nine per cent chose, "abilities and personality well suited"; while twenty per cent mentioned the pay. "Highly respected job" was given by about five per cent of

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subjects.

Silvey says that the Ugandan students' responses suggest that salary is a secondary aspect of prestige in a job. Both salary and prestige are well behind more "psychological" factors of interest and suitability when students thick about their first jobs. Silvey considers interests, abilities and personality - suitedness as being important in the attractiveness of an occupation. From his Ugandan evidence, he concludes that, "We cannot therefore equate prestige with an incentive to recruitment". His Ugandan respondents attached very little importance to prestige in thinking about their first job. He says, however, that aspirations do often respond to the reality of the market.

Durojaiye (1970) questioned one-hundred and ninety six students in all forms of the International School in Ibadan. Over sixty per cent of the subjects wished to go to the University.

McQueen (1965) interviewed one-hundred and sixtytwo primary pupils in Port Harcourt. Eighty-four per cent of those questioned wished to pursue further education. Some of the reasons given for wanting further education were, helping the family and self-improvement. A smaller number mentioned the money or prestige that might be gained.

Koff (1967) examined what primary pupils in Kenya think are the purposes of their education, and how these relate to their aspirations. His sample consisted of

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thirty-three primary schools. The majority of the pupils saw the pursuit of their education as providing a chance for personal as well as social mobility. Those who were interested in knowledge for its own sake were in the minority. Some of the reasons given for studying hard were: a) helping one's parents; b) paying school fees for brothers and sisters; c) getting good jobs, d) living a comfortable life. Koff concludes that education is principally seen as a means towards social mobility. This means, that occupations which are linked with educational activities are preferred by pupils, because they offer chances for further education. For instance a boy in Koff's sample preferred to be a clerk because of the following reason:

"I would like to have this job (clerk) because I shall be reading some books and I can continue like that till I have a good education" (Koff, 1967, p 402).

In investigating occupational aspirations, Koff asked his respondents, "What is the best job to have in Kenya?" In the order of popularity, the choices given were as follows: "Cash crop farmer"; clerical, and skilled labour type of jobs. When asked what jobs they personally would prefer, both rural and urban pupils named clerical work. Koff indicates in his results that those who say farming is the best job give, as reasons, a high income; status; and "service to the nation".

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In his sample, the open sentence: "Farming is good for ---" yielded thirty per cent of rural pupils replies based on percenal reasons, such as its income, and free food. About twenty-five per cent of the subjects mentioned the benefits that farming has to the nation. In comparison, only thirty-nine per cent of rural pupils thought that farming would be their career as against fifty-one per cent of urban pupils who thought likewise.

Hicks (1966) study in the copper-mining town of Broken Hill in Zambia, was mainly concerned with the aspects which make a job prestigious. His respondents had twelve occupations to consider. These included Cabinet Minister; Minister of Religion; police constable; secondary school teacher; and domestic servant. The respondents were trainees at the Railway training school and had had at least nine years of education. They came from families in which the fathers had had primary education and were employed as teachers, gardeners, traders and clerks. Hicks found that prestige is a compound of several attributes of a job. These include the money earned; responsibility exercised; education and intelligence needed; service rendered to others; and the power and influence gained. Hicks concludes that these factors are more often found as a group and seldom individually. These factors give some measure of the relative attractiveness of a job.

Clignet (1966) has summarised results from various studies, on levels of aspirations: Ivory Coast (1959); Mali (1961);

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Gaben (1962); Senegal (1962). He found that the Ivery Coast results showed a rise in aspirations with increase in school level. As the students got nearer in Secondary school, they tended to aspire to high level jobs. Clignet also found out that the fields of technical work and teaching were most popular in all the countries examined. In comparison, politics and agriculture seemed to be in little demand in all these groups. Clignet discusses the differences in aspirations between pupils of rural and urban origins. In Senegal, the results showed that rural and urban pupils' aspirations did not differ in level, though they did differ with regard to types.

For instance, more rural pupils had desires to enter teaching. In Gabon, urban pupils had higher level preferences than their rural counterparts. In Mali, there were large rural-urban differences in terms of level and type of aspirations. The rural pupils again had a smaller proportion with high ambitions.

Clignet concludes that the reasons for differences in occupational aspirations are due to the traditional social organisations found in each of these countries. These have an influence upon the aspirations and professional motivations of the school population. In Senegal, for instance, Wolof pupils look towards a political career more than pupils from other tribes. Clignet says that they are less attracted towards the medical profession unlike other tribes.

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Foster (1965) interviewed two hundred and ten boys in nine randomly selected middle schools in Accra. The respondents were asked, "What kind of job would you really like to get if you could freely choose what you wanted to do?" and, "What kind of job do you expect to obtain, in fact, when you leave school?". Results show that fifty-one per cent chose to be artisans and skilled workers while twentyone per cent were interested in professional jobs. Less than one per cent were interested in teaching. Foster found very high aspirations for continuing education. About ninety-seven per cent of his sample hoped to carry on full time schooling after fourth form. Regarding post-secondary aspirations, he found that nearly three-quarters of his group hoped for University education of some kind. Some hoped to go to the University of Ghana while others were interested in Overseas Universities.

Foster points out that there was a tendency for students with higher parental education to have higher occupational aspirations. The majority in this group expected to enter clerical type jobs while those from less educated backgrounds expected more often to find themselves teaching. Foster says that this reflects, "the general contention that teaching in Ghana, as in most countries, constitutes the principal mode of occupational mobility for lower status groups".

Heijnen (1967) presented a list of twenty-four jobs to one hundred and fifty-four rural pupils. An almost

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identical list was given to over one hundred urban pupils in Nucerca, Tanancia. The jobs were open to primary school leavers which they occupied a very narrow part of the total occupied spectrum. The pupils had to respond on a five-point scale. They were required to indicate whether they liked the job very much or did not like it at all.

The item "farmer" was placed seventh among both groups, while "house servant" was bottom of the lists. Heijnen collected the reasons given for choosing the good jobs and avoiding the bad ones. Fourty-nine per cent of the sample gave "nation-building" type of reasons, while less than thirty per cent gave financial reasons. Nearly threequarters of his respondents said that "house servant" reminded them of "slave labour", while others considered it "woman's work".

Heijnen sees a sense of reality in the pupil's rating of the item "farmer". He says that once students have failed, they think it better to turn to farming than to swell the ranks of the unemployed in town. From the farm, they can at least be assured of enough food and a reasonable money income.

American researchers have made a substantial contribution to the study of aspirations. Sewell, et al (1957) undertook a study to test the general hypothesis that levels of educational and occupational aspirations of youth are associated with the social status of their families. His questions were aimed at the education the student planned to obtain after graduating from high school. All those students who planned to enter the

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university were classified as having high educational aspirations, while all others were classified as having low educational expirations.

The students were asked what kind of vocation they planned to enter after high school. Those who chose occupations equal to or higher than university lecturer were considered to have high occupational aspirations, while all others were said to have low occupational aspirations. The occupational level was measured by the level of education needed for the particular occupation.

Sewell's results indicate that females from high status families are more likely to have higher level educational aspirations, than are those from lower status families. For males, the study also shows that high level educational aspirations are more characteristic of those from high status families. Sewell shows that ninety per cent of the respondents from high status families plan to attend college while only thirty-two per cent of those from low status families plan to do likewise.

Sewell (1968) indicates that father's education has a slightly stronger effect than mother's education on student's educational plans. This is particularly so for males. For females, both father's and mother's education have an almost equal effect on the student's aspirations.

Alan B. Wilson (1959) made a survey of students' interests as related to their decisions about educational and

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occupational aspirations. He investigated the effect that the education of the parents has on these aspirations. His results show that if the father has not completed high school, it makes little difference whether the mother has gone to college or rot. It makes considerable difference however, if the father has gone to college, even though the mother has not completed high school.

Krauss, Irvin (1964) made a similar investigation on sources of educational aspirations among working-class youth in America. He found that among the possible sources of educational aspirations, are experiences that lead to dissatisfaction with a present status and interest in a new one. Krauss shows that when the working-class father has not completed high school, the mother's educational achievement does not influence the student's post high school plans. When the father has completed high school, the mother's education strongly affects the student's interest in college. Where the mother and the father have both completed high school, the majority of the respondents indicated that they had plans for higher education. Thus the high school experience of the parents influences students' aspirations for higher education.

Glick (1956) investigated the relationship between educational level and potential income. He states that educational attainment helps to determine the occupational and income levels to which a person can aspire. He concludes that an investment in education increases the probability of

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financial sucess but does not guarantee its attainment.

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Powers, (1974) administered questionnaires to students to find out the ideal and real occupational aspirations. He was mainly interested in the relationship of these aspirations to selected personal and family factors. The major findings indicated that the educational attainment of the parents is strongly related to the students' occupational aspirations. Similarly, the occupational status of the father and the occupational aspirations of the students are strongly related. Overview

It appears clear that there is a widespread desire for the kind of education that leads to a good job. The foregoing studies show that educational and occupational aspirations are related to various factors. Among these factors, the quality of the schools attended; the student's personal factors and experience, and the parents' education and occupation appear to be important.

In the American studies for instance, the status of the family is shown to be significantly related to the student's aspirations. Some of these studies show that the mother's education is of little significance if the father has had no education. Sewell (1968) points out that the father's education has a slightly stronger effect on males than mother's education. This is also true for occupational status of the father is significantly related to the occupational aspirations of the students. (Davis 1973; Haller 1957; Maxwell 1969).

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In the African Studies, the available research results leave several questions unanswered. For example:

- (a) Will the abilities developed in formal education assist the students in selecting the kind of jobs to which they are best suited?
- (b) Will students to a great extent think of the rewards brought by certain jobs than of the obligations that ensue in aspiring to such jobs?
- (o) Will jobs be found attractive principally by those qualified to fill them?

These are questions of interest which have not so far been adequately answered by researchers.

More research is also needed to show how prestige affects desirability of jobs. The work of McQueen (1968) and Koff (1967) for example suggests that perception of prestige in a job does not involve a desire for that job.

Observation shows that job opportunities are becoming fewer and fewer relative to those seeking employment. Consequently, the number of the jobless is rising, the period required to obtain employment is lengthening, and the formal qualifications for jobs are rising steadily. This is partly, why the Kenyan education system is being questioned, because of its highly selective character of producing only a few individuals equipped for placement in the modern sector of the economy. These facts show the gross inadequacies of our present educational system. It is in view of this that a study of educational and occupational aspirations can be useful, in revealing areas that mend attention, and in which students can be guided.

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CHAPTER THEEE

METHODOLOGY

This study hypothesises that several factors are related to secondary school students' educational and occupational aspirations. The following hypotheses were considered in the study:

Hypothesis I

The age of a student is related to his educational and occupational aspirations.

Silvey (1969) found in his study that the older the student is the higher are his aspirations. Silvey states that the older the student is, the more likely is he to have had certain life experiences which assist him in forming aspirations.

Hypothesis II

There is a relationship between the religious

affiliation of a student and his educational and occupational aspirations.

In the rural areas of Kenya, the religious affiliation of a person is given a lot of emphasis. It is therefore felt that the religion in which a student has been brought up, is related to his educational and occupational aspirations.

Hypothesis III

The birth order of a student is related to his educational and occupational aspirations.

Davis (1973) indicated that some first borns in his sample were forced to terminate further education in order to get jobs and assist their younger brothers and sisters.

Hyrothesia JV

There is a relationship between <u>family size</u> and a student's educational and occupational appirations.

Sowell (1967) indicated in his study that students who came from emoil families have higher aspirations than those who came from larger families.

<u>Hypothesis</u> V

There is a relationship between parental encouragement and a student's educational and occupational aspirations.

Sewell (1957) indicated in his study that students who received regular parental encouragement on their work, had higher aspirations than those who did not receive such help.

Hypothesis VI

There is a relationship between the educational

level attained by a student, and his educational

and occupational aspirations.

King (1971) found in his study that form one students who aspired to go to university were sixty-nine per cent, and that this dropped to forty-cix per cent in form four. King also found that the occupational aspirations of form four students were higher than those of form one students.

<u>Hypothesis VIT</u>

The educational and occupational aspirations of males are higher than those of females.

Cligant (1976) relate out the block dex differences are not always inclinately, there are reliable differences in the way began and first orders to bigh level jobs and to high almostics of 2012. In Suber, there was a granter proportion of rand differences that there was urban gials. There are acceller proportion of rural toys with high aspirations there was urban boys. In Senegal, however, there was a smaller proportion of girls with high aspirations than there was boys.

Hypothesis VIII

Students with highly educated parents have higher educational and occupational aspirations than students with less educated parents.

Foster (1965) showed that in his study, there was a tendency for students whose parents had attained high education, and obtained good jobs to expect to enter clerical type of jobs. Those from less educated backgrounds expected more often to find themselves teaching.

Hypothesis IX

Students whose parents have executive jobs have higher educational and occupational aspirations, than students whose parents have less executive jobs.

Foster (1965) found in his study that there was a tendency for students whose parents had executive jobs, to have higher aspirations than students whose parents had less executive jobs.

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Foster stresses that the cocial statue of the purcets' occupation, also appeared to influence the students' appirations.

Description of the Cuestionnaire

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A question dire, (appendix V) consisting of eighteen questions was constructed, in order to measure the variables in the hypotheses.

Question one which was in four sections, required the respondents to indicate their age, religion, birth order, and the size of the family. It was felt that religion may influence students' aspirations, because in the rural areas of Kenya, children are brought up with some kind of religious affiliation. Religious knowledge is also a major subject among those studied in school. The section on the birth order of the subjects was to find out whether they were first borns or later borns. Studies have indicated that first borns tend to have higher aspirations than later borns. (Davis 1973). The section on family size required the respondents to indicate the number of brothers and sisters living in the same house. Studies have indicated that family size influences students' aspirations (Sewell 1968).

As a measure of the students' educational aspirations, questions two, three and four were used. In question two, the respondents were asked to state how they rated their chances of continuing education beyond fourth form. The options given were:

I am certain to continue my education I have a reasonable chance of continuing

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I will containing not be able to continue. Question three way to aspect the way students rake choices of the institutions they would like to join after form four. They ware given six choices and were asked to indicate their first and second. The choices given were:

A Totchen Training College

A Technical Institute

An Agricultural Institute

A Higher School Certificate Class

A Commercial College

A Eursing School.

Question four required the respondents to indicate the kind of encouragement they received from their parents about further education.

In questions five and seven, the respondents were asked to report the educational levels of their parents. They were given five categories to choose from. The highest of these categories was, "had university education", while the lowest was, "did not go to school". The respondents were also asked in question six and eight to indicate whether their parents had had any education or training of other kinds, such as in a Trade School, a Secretarial College or a Teacher Training College. Questions ten and eleven sought knowledge concerning the parents' occupations.

As a measure of the respondents' occupational aspirations, questions twelve, thirteen, fourteen, sixteen and seventeen were used. The respondents were asked in question twelve to state the job they would train for, given the necessary training opertunities. Creation fifteen was given in order to chock the consistency with which the respondents ensured the questions regarding the occupations they would like to do after school. Question thirteen sought knowledge of the level of education the respondents thought was sufficient for the job of their choice.

Question fourteen required the respondents to indicate the kind of jobs, that their parents would like to see them do after school. In questions sixteen and seventeen, the respondents were given two statements regarding the way one gets a job in Kenya today. The respondents were required to indicate whether they agreed, disagreed, or were not sure about these statements.

To show the respondents' conception of the jobs that would interest them in the future, they were given a set of sixteen occupations in question eighteen and asked to rank them in terms of prestige. The occupations given, required different levels of education. The highest of these educational levels was University education, while the lowest was no education at all.

Choice of the Sample

The sample for this pilot study was selected from children in form one in two urban secondary schools. The schools used were Parklands Boys and Ngara Girls Secondary Schools. These two schools were chosen because they were within convenient walking distances.

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Before the questionaire was advinistored, permission was obtained from the beadmaster and beadmistress respectively. The body of the two behacles introduced the interviewer to the teachers where classes were to be used in the study. The teachers ther introduced the interviewer to the students. With the aid of the class registers, twenty beys and twenty girls were randomly selected. These students who were selected then moved into a different room so as to respond to the questionnaire without interference.

Administration of the Questionnaire

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The interviewer distributed the questionnaires to the respondents. It was explained to the respondents that the purpose of the questions was to find cut the educational and occupational aspirations of students, and how these are related to the education they get in school. The respondents were required to answer all the eighteen questions. Help, if needed was given to the respondents by the interviewer. The respondents spent between twenty and thirty minutes to complete the questionnaire.

Some problems were encountered during the administration of the questionnaire. In question two some of the respondents tended to tick more than one option. It was explained to them that one cannot say, "I am certain to continue my education", and then at the same time also say, "I will certainly not be able to continue". In question three, some respondents indicated more than the required first and second choices.

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This too was clarified to the respondents. Some of the respondents appointed confused by the negatives in the fourth question. It was explained that the respondents were require? to tick either a "Yes" or a ""o", but not both as some did. In questions sixteen and seventeen, some respondents ticked the "agree" and the "not sure" categories at the same time. It was also explained to them that one cannot say he agreed with the statement, and then also say that he was not sure about it. The word "prestige" in question eighteen appeared difficult and unclear to some respondents. The meaning of the word was explained to them.

Measurement of Variables

Level of Educational Ashirations

The responses given in question three were dichotomised into "high" and "low" educational aspirants. Those respondents who gave a "Higher School Certificate Class", or a "Technical Institute" as their first choice, were placed in the "high" category. It was felt that these categories require a similar level of education. Those respondents who gave anything academically lower than a higher school certificate class, were placed in the "low" category. ٩.

Level of Occupational Aspirations

The responses given for questions twelve and thirteen, were diohctomised into "high" and "low" occupational aspirants. Those respondents who chose jobs that require university education, were placed in the "high" category. Those

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respondents who chose jobs that require anything academica-11y lower than university education, were placed in the "low" category.

Parents' Education

The responses given to question five were split to indicate "high" or "low" education of the parents. "High" education was taken to mean that the parents had had secondary or more education. "Low" education on the other hand, was taken to mean that the parents had had less than secondary education or none. The number of years that a parent had spent in school was used to indicate his educational level. Question seven was treated similarly and the aggregate of responses to question five and question seven used as parental educational level.

Parents' Occupation

The parents' occupations were categorised according to the level of education necessary for the job. Secondary education was taken to be the highest level of education necessary for a good job. The level of education that a parent had attained, was therefore used to indicate the status of the occupation that a parent had.

Occupational Ranking

It is important to note here that a valid method of ranking occupations in Kenya does not exist. This is mainly

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due to the scarcity of information about jobs in the modern sector. Also, different people employ differing values as yardsticks for ranking occupations. The method employed in this pilot study depends on the level of education considered sufficient for the job. The assumption is that a strong correlation between educational achievement and occupational status exists. A student who chooses a job that requires university education, is said to have higher occupational aspirations, than his counterpart who chooses a job that requires less than university education. (Sewell 1957).

Appendices III and IV, show the way in which the respondents ranked the sixteen occupations given to them. The ranking was done in terms of the prestige of the given occupations. For the purpose of analysis, a method was devised for ranking these occupations and awarding different scores to each of them. The ranking depended on the frequency with which a particular occupation was chosen by respondents, and also on the position it was given by the respondents.

The following example is used to illustrate. For the first eight occupations which were ranked high, the scores ranged from one to eight in the order of choice. If a respondent placed a University professor as his first choice, this position being the highest in his order of prestige, received a score of plus eight. If a respondent placed a policeman in the sixteenth position, this being the lowest choice in his order of prestige,

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received a score of minus eight. To avoid very high figures, negative scores were awarded to the eight occupation choices which were placed lowest. Thus, the highest choice received a score of plus eight, while the lowest choice received a score of minus eight. A total score for all the respondents was then calculated, by adding up all the scores for all the occupation choices given by the respondents.

Example	<u>e</u> :	Ranki	ng of a	Men	ber o	of Parl	iament	by	Boys.
Number	of	boys	ranking	M.F	. as	first	choice	=	4
			Total	numk	er of	boys		=	20
			Score	for	a fi	rst cho	oice	=	8
				•	•	4 x 8 - 20		-	1.6
			Score	for	a se	cond cl	noice		7
			Number	of	boys	making	g this		
			choice	5					1
				•	•	1 x 7 - 20		-	0.35
			Score	for	a th	ird ch	bice		6
			Number	of	boys	makin	g this		
			choice	•				12	5
					••	5 x 6 - 20		-	1.5
			Score	for	a fo	urth c	hoice		5
			Number	of	boys	makin,	g this		
			choice	3				=	4

30 . 4 x 5 = 1.0 20 Score for a sixth choice = 3 Number of boys making this choice 2 = • 2 x 3 . 0.3 20 Score for a ninth choice = -1 Number of boys making this choice 2 == . 2 x -1 = -0.1 20 Score for a tenth choice = -2Number of boys making this choice 1 -1 x -2 -0.1 20 Score for a fourteenth choice -6 82 Number of boys making this choice 1 323 ••• 1 x -6 **∞** -0.3 20 Total Score = (1.6 + 0.35 + 1.5 + 1.0 + 0.3) + ((-0.1) + 0.3)

(-0.1) + (-0.3))

= 4.25

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Thus a Member of Parliament received a total score of plus

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4.25. The total scores for all the occupations were then ranked from the lowest to the highest. All the other occupations were similarly treated.

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CHAPTER FOUR

PILOT STUDY RESULTS

The chi square test at the 0.05 level and the point biserial correlation were used to analyse the results. The pilot study yielded the following results:

Ranking of Occupations by respondents.

A close look at the way the respondents ranked the occupations given to them, shows that the occupational choices fell into three groups. A Member of Parliament was in a class of his own. A second group included occupations that require a University level of education — professor, doctor, lecturer, and lawyer. A third group included occupations that require a secondary school level of education — high school teacher; hotel manager; nurse; secretary; clergyman and businessman. The occupations were therefore ranked according to the level of education necessary for the particular occupation.

The ranking of these occupations indicate some awareness on the part of the respondents, of the fact that a high level of education enhances the range of options open to individuals in particular jobs. The respondents realise the importance of education in relation to good jobs.

Relationship between respondents' Educational and Occupational Aspirations, and Mothers' Occupation.

Mothers' occupation as a variable was not examined with either the educational or the occupational aspirations of the respondents. The reason for this omission is that the majority of the respondents in the pilot study reported that their mothers were just housewives, and that they had no other jobs outside the home. This meant that there was a lack of adequate variation in mothers' occupations.

Relationship between respondents' Age and Educational

Aspirations.

The point biserial coefficients between the respondents[•] age and their educational aspirations for boys and girls were -0.12 and -0.17 respectively. When boys and girls were combined, the coefficient was -0.16. A t - test was used to determine whether these coefficients were significantly different from zero (McNemar, Q. 1969, p. 219). It was found out that these three coefficients were not significantly different from zero. There was no significant relationship between the age of the respondents and their educational aspirations.

Relationship between respondents' Age and Occupational

Aspirations.

The point biserial coefficients between the respondents' age and their occupational aspirations for boys and girls were -0.42 and -0.17 respectively. When boys and girls were combined, the coefficient was -0.24. The t - test indicated that the coefficients for the girls and combined samples were not significantly different from zero. The coefficient for the boys' sample, however, was found to be significantly different from zero. The observed (t = 1.87) and the critical ($...5 = \pm 1.73$) df = 18. This result indicates a negative relationship between the boys' age and their occupational aspirations.

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TABLE I

Relationship	between	respondents!	Ser
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and Educational Aspirations.

	High	Low	
Воуз	9	11	20
Girls	11	9	20
	20	20	40

 x^2 = 0.40 Critical x^2 = 3.84

The chi square test indicated that the sex of the respondents was not significantly related to their educational aspirations. That is, the proportion of boys who were high educational aspirants was not significantly different from the proportion of girls who were high educational aspirants.

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TABLE II

Relationship between respondents' Sex

	High	Low	
Воув	12	8	20
Girls	5	15	20
	17	23	40

and Occupational Aspirations.

 $x^2 = 5.00$ Critical $x^2 = 3.84$

The chi square test indicated that the sex of the respondents was significanly related to their occupational aspirations. That is the proportion of boys who were high occupational aspirants was significantly different from the proportion of girls who were high occupational aspirants.

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TABLE III

Relationship between respondents' Religion

	High	Low	
Christians	13	15	28
Non-Christians	7	5	12
	20	20	40

and Educational Aspirations

 $x^2 = 0.46$ Critical $x^2 = 3.84$

The chi square test indicated that the religious affiliation of the respondents was not significantly related to their educational aspirations. That is, the proportion of Christians who were high educational aspirants was not significantly different from the proportion of non-Christians who were high educational aspirants.

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TABLE IV

Relationship between respondents' Religion

	High	Low	
Christians	17	11	28
Non-Christians	5	7	12
	22	18	40

and Occupational Aspirations.

 $x^2 = 1.93$ Critical $x^2 = 3.84$

The chi square test indicated that there was no significant relationship between the respondents' religious affiliation and their occupational aspirations. That is, the proportion cr christians who were high occupational aspirants was not significantly different from the proportion of non-christians who were high occupational aspirants.

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TABLE V

Relationship between respondents'

Birth Order and Educational Aspirations.

	High	Low	
First Borns	6	8	14
Later Borns	14	12	26
	20	20	40

 $x^2 = 0.42$ Critical $x^2 = 3.84$

The chi square test indicated that there was no significant relationship between the respondents' birth order and their educational aspirations. That is, the proportion of first borns with high educational aspirations was not significantly different from the proportion of later borns with high educational aspirations.

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TABLE VI

Relationship between respondents' Birth

	High	Low	
First Borns	8	6	14
Later Borns	14	12	26
	22	18	40

Order and Occupational Aspirations.

 $x^2 = 0.17$ Critical $x^2 = 3.84$

As in the case of educational aspirations, the chi square test indicated that there was no significant relationship between the respondents' birth order and their occupational aspirations. That is, the proportion of first borns who were high occupational aspirants, was not significantly different from the proportion of later borns who were high occupational aspirants.

Relationship between respondents' Family Size and Educational Aspirations.

The point biserial coefficients between the respondents' family size and their educational aspirations for boys and girls were -0.13 and 0.12 respectively. When boys and girls were combined, the coefficient was -0.01. The t - test indicated that these three coefficients were not significantly different from zero. This indicates that there is no significant relationship between the respondents' family size and their educational aspirations.

Relationship between respondents' Family Size and Occupational Aspirations.

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The point biserial coefficients between the respondents' family size and their occupational aspirations for boys and girls were -0.46 and -0.05 respectively. When boys and girls were combined, the coefficient was -0.22. The t - test indicated that the coefficients for the girls and combined samples were not significantly different from zero. The coefficient for the boys' sample, however, was found to be significantly different from zero. The observed (t = -2.13) and the critical ($\frac{1}{-0.5}$ =+ 1.73) df = 18. This result indicates that for boys, a negative relationship exists between the respondents' family size and their occupational aspirations.

Relationship between respondents' Educational Aspirations and Fathers' Education.

The point biserial coefficients between the respondents' educational aspirations and their fathers' education for boys and girls were 0.48 and -0.28 respectively. When boys and girls were combined, the coefficient was 0.01. The t - test indicated that the coefficients for the girls and combined samples were not significantly different from zero. The coefficient for the boys' sample, however, was found to be significantly different from zero. The observed (t = 2.29), and the critical ($\frac{1}{125} = \pm 1.73$) df = 18. This result indicates that for boys, a positive relationship exists between the respondents' educational aspirations and their fathers' education.

Relationship between respondents' Educational Aspirations and Mothers' Education.

The point biserial coefficients between the respondents' educational aspirations and their mothers' education for boys and girls were -0.12 and 0.18 respectively. When boys and girls were combined, the coefficient was 0.03. The t - test indicated that the three coefficients were not significantly different from zero. This result indicates that there is no significant relationship between the respondents' educational aspirations and their mothers' education.

Relationship between respondents' Educational Aspirations and Fathers' Occupation.

The point biserial coefficients between the respondents' educational aspirations and their fathers' occupation for boys and girls were -0.18 and 0.07 respectively. When boys and girls were combined, the coefficient was -0.04. The t - test indicated that the three coefficients were not significantly different from zero. This result indicates that there is no significant relationship between the respondents' educational aspirations and their fathers' occupation.

Relationship between respondents' Occupational Aspirations and Fathers' Education.

The point biserial coefficients between the respondents' occupational aspirations and their fathers' education for boys

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and girls were 0.12 and -0.09 respectively. When boys and girls were combined, the coefficient was -0.01. The t - test indicated that the three coefficients were not significantly different from zero. This observation indicates that there is no significant relationship between the respondents' occupational aspirations and their fathers' education.

Relationship between respondents' Occupational Aspirations and Mothers' Education.

The point biserial coefficients between the respondents' occupational aspirations and their mothers' education for boys and girls were 0.21 and 0.03 respectively. When boys and girls were combined, the coefficient was 0.13. The t - test indicated that the three coefficients were not significantly different from zero. This observation indicates that there is no significant relationship between respondents' occupational aspirations and their mothers' education.

Relationship between respondents' Occupational Aspirations and Fathers' Occupation.

The point biserial coefficients between the respondents' occupational aspirations and their fathers' occupation for boys and girls were 0.09 and 0.33 respectively. When boys and girls were combined, the coefficient was 0.23. The t - test indicated that the three coefficients were not significantly different from zero. This observation indicates that there is no significant relationship between the respondents' occupational aspirations and their fathers' occupation.

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Summary of the Pilot Study Results.

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Table seven below shows the summary of the relationships between the respondents' age; sex; religion; birth order; family size; fathers' education; mothers' education; fathers' occupation; and their educational and occupational aspirations.

TABLE VII

Relationships between variables in the pilot study and

Variables	Educa	tional Asp	irations	Occupational Aspirations		
	Boys	Girls	Combined	Воуз	Girls	Combined
Age	r = -0.12	r = -0.17	r = -0.16	r = -0.42	r = -0.17	r = -0.24
Sex	$x^2 = 0.40$			$x^2 = 5.00$		
Religion	$x^2 = 0.46$			$x^2 = 1.93$		
Birth Order	$x^2 = 0.42$			x ² = 0.17		
Family Size	r = -0.13	r = 0.12	r = -0.01	* r = -0.46	r = -0.05	r = -0.22
Fathers' Education	* r = 0.48	r = -0.28	r = 0.01	r = 0.12	r = -0.09	r = -0.01
Mothers' Education	r = -0.12	r = 0.18	r = 0.03	r = 0.21	r = 0.03	r = 0.13
Fathers' Occupa- tion	r = -0.18	r = 0.07	r = -0.04	r = 0.09	r = 0.33	r = 0.23

Educational and Occupational Aspirations.

* Significant at .05 level.

Discussion

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The results of the pilot study indicated that there was no significant relationship between the respondents' age and their educational aspirations. However, a significant relationship was found to exist between age and the occupational aspirations of boys. The younger the respondents were, the higher their occupational aspirations were found to be. A similar finding was reported by Foster (1965). The only difference is that Foster found a significant relationship between the age of both boys and girls and their educational as well as occupational aspirations. Foster concluded that the aspirations of younger respondents may, however, be more fantasy-laden than reality oriented, and therefore much higher than the aspirations of older respondents. Silvey (1969) found in his study that the older the respondents, the higher were their aspirations. The respondents in Silvey's sample of Form Four students were much older than the respondents in the present sample.

Although there was no significant relationship between the sex of the respondents and their educational aspirations, a significant relationship was found to exist between the respondents' sex and their occupational aspirations. The proportion of boys with high aspirations was greater than the proportion of girls. A similar finding emerges in the studies done by Boyle (1966), Davis (1973) and Elkan (1971). In these studies, the proportion of boys with high educational or occupational aspirations was much greater than the proportion of

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girls. Davis (1973) attributes this to the embitious character of boys for high positions which was not so evident in the girls in his sample. Clignet (1966) found that the boys in his sample aspired as high as the girls, both for high education and for good jobs.

The results reveal that the religious affiliation of the respondents was not significantly related to their educational or occupational aspirations. Christians and non-christians alike, aspired high, both for high education and for good occupations. Maxwell (1969) found no significant differences in the way respondents from different religious groups in his study, aspired to high education and for good careers in future. The proportion of Protestants with high aspirations was similar to the proportion of Catholics with high aspirations.

The results reveal no birth order effects upon the respondents' educational or occupational aspirations. This supports Elder's (1965) finding, that the firstborns and the laterborns in his study, aspired in equal proportions to high education and for good jobs. Sewell (1968) found that the proportion of firstborns with high aspirations was greater than the proportion of laterborns. His sample was from a predominantly urban environment.

It was also found that the family size of the respondents was not significantly related to their educational aspirations. A significant relationship was found to exist between the respondents' family size and their occupational aspirations in the boys' sample. The smaller the family was, the higher were

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the occupational aspirations. This supports Sewell's (1968) finding. Sewell indicated in his study, that the respondents who came from small families had higher appirations than those who came from larger families. The only difference is that Sewell's result was significant for both boys and girls.

The results indicate that father's education emerges as an especially important factor in relation to the educational aspirations of boys. The fathers' education was not significantly related to the respondents' occupational aspirations. Foster (1965) indicated that respondents who had highly educated parents in his study, had higher educational and occupational aspirations, than respondents whose parents were not highly educated. This was the case for both boys and girls in his study. The boys in the present sample may have a stronger desire than the girls, to be like their fathers.

The mothers' education was not significantly related to the educational or occupational aspirations of the respondents. The majority of the mothers in the sample were of low education. Baker (1973) found that the respondents who had working mothers had higher aspirations than the respondents whose mothers were housewives only. This result resembles the findings of Weeks (1967), Simpson (1962) and Russell (1956).

The fathers' occupation was not significantly related to the respondents' educational or occupational aspirations. A slightly stronger relationship existed between the fathers' occupation and the occupational aspirations of girls than of

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boys. Foster (1965) found that the respondents whose parents had executive jobs, also had higher aspirations then the respondents whose parents did not have such jobs.

Inspite of the size of the sample, the results indicate that parents' education and occupation has some relationship to the educational and occupational aspirations of the respondents. These findings shed some light upon the degree to which parental influence affects the way students think about their future education and occupation.

CHAFTER FIVE

CHOOSING THE MAIN STUDY SAMPLE

The subjects used in the main study were <u>two hundred secondary</u> school boys and <u>pirts</u>. One hundred and four of them were in Form One, while ninety-six were in Form Four. These subjects came from Kirangari, Kahuho and Uthiru High Schools. The three secondary schools are mixed schools, thus they conveniently provided both boys and girls for the study. The three schools are also day schools, which means the students live with their parents or guardians, therefore maximising the parental influence upon their future educational and occupational plans.

Forms One and Four were chosen for the main study. The interviewer was interested in finding out whether the educational level of a student would make a difference in his educational and occupational aspirations. It was felt that a difference of three years in secondary school would help to indicate whether the aspirations of Form Four students are realistic or fantasy-laden. The Form one students provided a comparative basis.

In the pilot study, only Form One students had been used as earlier indicated. Thus there was no comparison made in terms of educational levels and aspirations. Some students however, appeared to be brighter and to have had more experience than others. It was therefore decided that Form Four students should be included in the main study to provide for comparison.

The subjects in Form One, and in Form Four were randomly selected. The class registers were used to assist in the process

of selection. Permission was obtained from the three Heads of the three secondary schools, before the questionnaires were administered.

For the Form Fourc, the questionnaires were administered only a week prior to the E.A.C.E. Examination. It was felt that this was a convenient time, because the Form Four students would inevitably be thinking about their future educational and occupational plans. Similarly, the Form One students were taking their end of year examinations.

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There were more boys than girls in the main study, because in the rural areas, few girls make it to the secondary school level. By the time the girls get to Form four, their number becomes even smaller than that of the boys.

Table VIII reports the following details:-

- i) Name of the school from which the respondents come.
- ii) Location of the school by district.
- iii) Number of subjects who completed the questionnaire in each school.
 - iv) The Form of the subjects who answered the questions.

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TABLE VIII

The Names of the Schools, their location and

the number of subjects interviewed in

oach class.

(i)	(ii)		(iii)			(iv)	-
Names of secondary schools	Location by District	Numb who ques each	Number of subjects who completed the questionnaire in each school			of the sub to answered te question	jects s
		BOYS	GIRLS	TOTAL	FORM I	FORM IV	TOTAL
KIRANGARI HICH SCHOOL	KIAMBU	48	30	78	40	38	78
KAHUHO HIGH SCHOOL	KIAMBU	40	22	62	34	28	62
UTHIRU HIGH SCHOOL	NAIROBI	42	18	60	30	30	60
TOTALS		130	70	200	104	96	200

The subjects in the main study consisted of various age groups. These groups ranged from thirteen years to twenty years. It was clear from the various age differences that some of the subjects were too old to be in Form One. The possible explanation for this is that, these subjects might have started school late, or they might have had to repeat a class or two in the lower forms. In the Kenyan educational system, a student should complete Form Four at seventeen years of age, if they move from one class to the other without any difficulties. Some of the respondents in the study were already in their twentieth year, in their final year in school. The Mean Age of the sample was 16.67 years.

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Table IX reports the distribution of age and the school from which the respondents came.

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TABLE IX

Different Age Groups in the Sample by Schools

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	Age in Years	Kirangari High School	Kahuho High School	Uthiru High School	Total
	13	4	4	2	10
	14	8	4	4	16
	15	13	3	9	25
	16	5	18	17	40
	17	18	10	12	40
	18	17	14	6	37
	19	8	6	7	21
	20	5	3	3	11
					200
- 1					

The procedure for the Main Study.

The pilot study had shown that a few alterations needed to be done in the questionnaire that was to be used for the main study. The following changes were found necessary:

Question four in the questionnaire for the pilot study (appendix V) was substituted and given as question number fifteen in the main study. The pilot study had revealed that the responses given to that question were vague and too narrow in scope to be of any use to the study.

Question fourteen was reworded to read <u>father</u> or <u>mother</u> instead of <u>parents</u>. It was felt that the mother might wish the respondent to obtain a different kind of job or to attain a different level of education from the father, and vice versa. The question would reveal the influence of each parent upon the educational or occupational aspirations of the respondents.

Questions sixteen and seventeen were found to be poor questions and too vague in content. In these two questions, the respondents had the tendency not to want to commit themselves in their answers. Most of the respondents chose the "Not Sure" alternative in their responses and this was not useful to the purpose of the study. In these two questions, the respondents failed to indicate clearly, whether they agreed or disagreed with the statements given. Thus the answers to questions sixteen and seventeen were found to be unreliable as far as the aspirations of the respondents were concerned. In the Main study, question twenty was given as the substitute for these two questions.

Question twenty was the only free response question in the questionnaire for the main study. The question was intended to reveal the reasons why the respondents were studying hard in school.

Administration of the Questionnaire.

A questionnaire consisting of twenty questions was administered to two hundred respondents in the main study. The majority of the questions required structured responses. The respondents were required to tick the correct answers in the spaces provided, or to fill in the right answers according to their own opinions.

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Before the subjects answered the questions of the main study, the interviewer made a brief explanation of the questions, and how they were to be answered. The pilot study had indicated that some of the questions, particularly questions ten and fourteen (appendix VI) were not immediately clear to the respondents. The way in which the occupations in question fourteen were to be ranked was illustrated on the blackboard for all the respondents. This was found particularly necessary to the Form One students, who did not understand what "ranking" meant. Further explanation included the meaning of the words "prestige", and "clergyman". The difference between a university lecturer and a university professor was also explained.

There were relatively few problems in the administration of the questionnaire. The Form Four students in one of the secondary schools were at first hesitant to answer the questions. They said that this would take too much of their revision time, since their final year examinations were near. The interviewer explained that the questionnaire was a short one, and that it would take at most twenty minutes to complete it. The respondents found out that the questions were simple and it took them a much shorter time than they anticipated, to complete the questionnaire. It was explained to the respondents that the questions were not to assess their academic aptitude as they had feared.

On the whole, the respondents in the three secondary schools answered the questions clearly and with enthusiasm.

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Relationship between permendant Are and Educational Appirediate.

The point bicerial coefficients between the respondents' age and their educational aspirations for boys and girls were C.C2 and C.O9 respectively. When boys and girls were combined, the coefficient war C.O4. At - test was used to determine whether these coefficients were significantly different from zero. (Mollemar Q, 1969) It was found out that these three coefficients were not significantly different from zero. This indicates that there is no significant relationship between the respondents' age and their educational aspirations.

Relationship between respondents' Are and Occupational Aspirations.

The point biserial coefficients between the respondents' age and their occupational aspirations for boys and girls were 0.06 and -0.01 respectively. When boys and girls were combined, the coefficient was 0.05. The t - test indicated that these three coefficients were not significantly different from zero. This indicates that there is no significant relationship between the respondents' age and their occupational aspirations.

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TABLE X

Relationship between respondents' Sex and

	High	Low	
Воуз	90	40	130
Girls	28	42	70
	118	82	200

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Educational Aspirations.

 $X^2 = 15.33$ Critical $X^2 = 3.84$

The chi square test indicated that the sex of the respondents was significantly related to their educational aspirations. The proportion of boys who were high educational aspirants was significantly different from the proportion of girls who were high educational aspirants.

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TABLE XI

Ī	lelationship between re	espondents' Sex	and	
	Occurational As	Occupational Aspirations.		
	High	Tom		
Boys	83	47	130	
Girls	25	45	70	
Advantant to read to the	108	92	200	

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x² = 14.96 Critical X² = 3.84

The chi square test indicated that the Sex of the respondents was significantly related to their occupational aspirations. The proportion of boys who were high occupational aspirants was significantly different from the proportion of girls who were high occupational aspirants.

TABLE XII

Relationship between respondents' Religion and

	High	Low	
Protestants	59	43	102
Catholics	45	53	98
	104	96	200

Daucational Aspirations.

 $x^2 = 2.89$ Critical $x^2 = 3.84$

The chi square test indicated that the religious affiliation of the respondents was not significantly related to their educational aspirations. The proportion of Protestants who were high educational aspirants was not significantly different from the proportion of Catholics who were high educational aspirants.

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TABLE XIII

Relationship between respondents' Religion

and Cocupational Aspirations.

	High	Low	
Protestants	57	45	102
Catholics	46	52	98
	103	97	200

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 $x^2 = 1.28$ Critical $x^2 = 3.84$.

The chi square test indicated that the religious affiliation of the respondents was not significantly related to their occupational aspirations. The proportion of Protestants who were high occupational aspirants was not significantly different from the proportion of Catholics who were high occupational aspirants.

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TABLE XIV

Relationship between respondents' Birth Order

	High	Low	
First Borns	46	38	84
Later Borns	59	57	116
	105	95	200

and Educational Aspirations.

 $x^2 = 0.33$ Critical $x^2 = 3.84$.

The chi square test indicated that the respondents' birth order was not significantly related to their educational aspirations. The proportion of first borns who were high educational aspirants, was not significantly different from the proportion of later borns who were high educational aspirants.

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TABLE XV

Relationship between respondents' Birth Order

	High	Low	
First Borns	44	40	84
Later Borns	58	58	116
	102	98	200

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and Cocupational Aspirations.

$$x^2 = 0.11$$
 Critical $x^2 = 3.84$.

The chi square test indicated that the respondents' birth order was not significantly related to their cocupational aspirations. The proportion of first borns who were high occupational aspirants, was not significantly different from the proportion of later borns who were high occupational aspirants.

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TABLE XVI

Relationship between respondents' Educational Level

	High	Low	
Form IV	58	38	96
Form 1	40	64	104
	98	102	200

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and Educational Aspirations.

 $x^2 = 9.69$ Critical $x^2 = 3.84$

The chi square test indicated that the respondents' level of education was significantly related to their educational aspirations. The proportion of form four respondents who were high educational aspirants, was significantly different from the proportion of form one respondents who were high educational aspirants.
TABLE XVII

Relationship between respondents' Educational Leveland Occupational Aspirations.HighLowForm IV5046Form I752910412575200

 $x^2 = 8.55$ Critical $x^2 = 3.84$.

The chi square test indicated that the respondents' level of education wus significantly related to their occupational aspirations. The proportion of form four respondents who were high occupational aspirants was significantly smaller than the proportion of form one respondents who were high occupational aspirants.

Relationship between respondents' Family Size and Educational Aspirations.

The point biserial coefficients between the respondents' family size and their educational aspirations for boys and girls were 0.09 and 0.18 respectively. When boys and girls were combined, the coefficient was 0.15. The t - test indicated that these three coefficients were not significantly different from zero. This indicates that there is no significant relation-

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ship between the respondents' family size and their educational appirations.

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The foil bisorial coefficients between the respondents' family size their occupational aspirations for boys and girls were C.Cl and -O.Cl respectively. When boys and girls were combined, the coefficient was -O.Ol. The t - test indicated that these coefficients were not significantly different from zero. This indicates that there is no significant relationship between the respondents' family size and their occupational aspirations.

Rel tionship between respondents' Educational Aspirations and Fathers' Education.

The point biserial coefficients between the repondents' educational aspirations and their fathers' education for boys and girls were 0.26 and 0.39 respectively. When boys and girls were combined, the coefficient was 0.31. The t - test indicated that the boys', the girls' and the combined coefficients were significantly different from zero. The observed (t = 3.08), df=128, (t = 3.47) df=68, and (t = 4.63) df=198 respectively. The critical (t₀₅= ± 1.66). This indicates that a significant relationship exists between the respondents' educational aspirations and their fathers' education, for both boys and girls and boys and girls combined. and Nothernet Flucition.

The point binomial coefficients between the respondents' cohordianal additions and their mothers' education for boys and girls were combined, the coefficient was 0.31. The t - test indicated that the boys', and firls' and the combined coefficients were significantly different from zero. The observed (t = 3.34) df=128, (t = 3.09) df=68, and (t = 4.51) df=198 respectively. The critical (to5 = \pm 1.66). This result indicates that there is a significant relationship between the respondents' educational aspirations and their mothers' education. This is the case for the boys' and the girls' samples and the combined sample.

Relationship between respondents' Educational Aspirations

and Fathers' Occupation.

The point biserial coefficients between the respondents' educational aspirations and their fathers' occupation for boys and girls were 0.22 and 0.22 respectively. When boys and girls were combined, the coefficient was 0.22. The t - test indicated that the boys', the girls' and the combined coefficients were significantly different from zero. The observed (t = 2.57) df=128, (t = 1.82) df=68 and (t = 3.23) df=198 respectively. The critical ($t_{05}=\pm 1.66$). This result indicates that there is a significant relationship between the respondents' educational aspirations and their fathers' occupation for the three samples.

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is the distributed coefficient between the respondents, is the distributed checkien for beys and girls then (..., is respectively. Then boys of girls there combined, the description was 0.26. The t = test indicated that the three description for beys', girls and combined, were significantly different from zero. The observed (t = 3.05) df=12%, (t = 2.06) df=6% and (t = 3.77) df=1% respectively. The critical (tos= \pm 1.66). This result indicates that a significant relationship exists between the respondents' occupational aspirations and their fathers' education.

Relationship between respondents' Occupational Aspirations and Nothers' Education.

The point tiserial ccerticients between the respondents' occupational aspirations and their mothers' education for boys and girls were -0.03 and -0.15 respectively. When boys and girls were combined, the coefficient was 0.0° . The t - test indicated that these coefficients were not significantly different from zero. This result indicates that there is no significant relationship between the respondents' occupational aspirations and their mothers' education.

Relationable between respondents' Cocupational Aspirations and Fathers' Occupations.

The point biserial coefficients between the respondents' occupational aspirations and their fathers' occupation for boys

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as 1 pirts some 0.41 \rightarrow 0.21 respectively. Then boys and pirts were occlined, the coefficient was 0.32. The t - test indicated that these coefficients were significantly different from zero. The observed (t = 1.01) fr=128, (t = 2.65) df=68 and (t = 5.69) delte contained (t = 1.66). This result indicates that a significant relationship wheth between the respondents' occupational aspirations and their fothers' occupation.

Relationship between respondented Educational Aspirations and Nothers' Occupation.

The point biserial coefficients between the respondents' educational aspirations and their mothers' occupation for boys and girls were 0.36 and 0.37 respectively. Then boys and girls were occlined, the coefficient was 0.36. The t - test indicated that these coefficients were significantly different from zero. The observed (t = 4.39) df=128 (t = 3;19) df=68 and (t = 5.45) df=198 for boys', girls', and combined coefficients respectively. The critical ($t_{05}=\pm 1.66$). This result indicates that a significant relationship exists between the respondents' educational aspirations and their mothers' occupation.

Relationship between respondents' Occupational Aspirations and Nothers' Occupation.

The point biserial coefficients between the respondents' occupational aspirations and their mothers' occupation for boys and girls were -0.08 and-D.13 respectively. When boys and girls were combined, the coefficient was -0.09. The t - test

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indicated that these coefficients were not significantly different from zero. This result indicates that there is no significant relationship between the respondents' occupational aspirations and their mothers' occupation.

Eaker (1973) had shown in his study that the levels of Education desired by parents for their children differed significantly from the levels of Education that the students desired for themselves.

Table XVIII shows the different levels of Education desired by Fathers and Mothers for the respondents in the sample.

TABLE XVIII

Levels of Education desired by Fathers and

Mothers for their children (in per cent).

	1							
(a)	F	ather	Mother					
Levels of Education	Boys	Girls	Воуз	Girls				
University Education	44.6	42.9	47.7	58.6				
Higher School Certificate	32+3	31.4	32.3	27.1				
School Certificate Education	23.1	25.7	20.0	14.3				
Total % = Total N =	100 130	100 70	100 130	100 70				

Table XVIII shows that over one half of the fathers and mothers would like their children to have University Education. More than one quarter of the fathers and mothers would like their children to obtain Higher School Certificate level of Education. This means that the majority of the parents would like their children to have at least six years of Secondary Education.

The respondents in the sample were also asked what kinds of occupations their parents desired for them after school. Table XIX shows the kinds of occupations mentioned by respondents, categorised according to the level of education required for the job.

TABLE XIX

Kinds of	f Oce	cupatio	ons d	lesired	<u>1 by</u>	Fathers	and
Mothers	for	their	chi	ldren (in	per cent).

	Fat	ther	Mother				
Kinds of Jobs Desired	Воуз	Girls	Boys	Girls			
Jobs that Require University Education	53.9	42.8	52.3	48.6			
Jobs that Require Higher School Certificate Education	32.2	28.6	26.2	30.0			
Jobs that Require School Certificate Education	13.9	28.6	21.5	21.4			
Total % = Total N =	100 130	100 70	100 130	100 70			

Table XIX shows that more than fifty per cent of the fathers and mothers would like their children to get jobs that require a high level of Education, namely University Education. The jobs mentioned in this category include: dectors, lawyers, engineers, University lecturers and professors. This shows that the parents of the respondents in the sample, desire white collar jobs for their children. This is not an unexpected observation, in view of the fact that our educational system is mainly geared to this end. The rest of the parents desire that their children have jobs which require at least school certificate level of Education.

The Ranking of Occupations by Respondents.

The ranking of the sixteen occupations, using the method reported in the pilot study, yielded the following for boys:

- 1. Doctor
- 2. University Professor
- 3. University Lecturer
- 4. Businessman
- 5. Farmer
- 6. Lawyer
- 7. Member of Parliament
- 8. High School Teacher
- 9. Hotel Manager
- 10. Writer
- 11. Nurse
- 12. Secretary
- 13. Clergyman

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- 14. Primary School Teacher
- 15. Policeman
- 16. Shopheeper.

The following was the ranking by girls:

- 1. Doctor
- 2. University Professor
- 3. University Lecturer
- 4. Member of Parliament
- 5. Lawyer
- 6. High School Teacher
- 7. Farmer
- 8. Nurse
- 9. Businessman
- 10. Hotel Manager
- 11. Primary School Teacher
- 12. Secretary
- 13. Clergyman
- 14. Writer
- 15. Policeman
- 16. Shopkeeper.

The above analysis shows that, for boys and girls, doctors, professors and lecturers in that order, enjoy the most prestigious positions in the country. One possible explanation for this, is perhaps the high level of education required to make a doctor, for instance. The students must have been thinking in terms of occupations which are related to high levels of Education. As indicated earlier, many of the respondents themselves wish to attain a University level of education, so that they may obtain such enviable jobs.

As shown in appendices VII and VIII, the scores for the various occupations were in the same ranges, for both boys and girls. The occupational rankings also indicate that both boys and girls have a positive orientation towards farming. The occupation "Farmer" was placed fifth and seventh positions by boys and girls respectively. The respondents acknowledge the suitability of farming for "educated" people. The respondents do not appear to think of farming as a supplementary source of income, but as a stable and permanent source, which requires high education.

The job of a businessman appears to have been very popular among the respondents. It was ranked fourth and ninth by boys and girls respectively. Many people today are leaving salaried employment to run their own businesses. One possible explanation for this, is the independence and the amount of initiative the job requires, which the respondents appear to be aware of.

While a Member of Parliament was placed high and in a category of his own, by the respondents in the pilot study, he is ranked seventh and fourth by boys and girls respectively. There is a greater percentage of girls than of boys who indicate that the job of a Member of Parliament is very prestigious.

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The ranking of the sixteen given occupations was done on the basis of the level of education considered necessary for the job. Consequently, for both boys and girls, a policeman and a shopkeeper are ranked lowest, in terms of their preside.

Recsons for Studying Hard.

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A certain degree of elaboration on the aspirations of students was provided by responses to a question, asking the respondents to state three reasons why they were studying hard in school.

Many reasons were given by the respondents as to why they were studying hard in school, but eight of them were most popular. The rank order and magnitude of the preferences for the eight reasons given, do not vary a great deal by sex. A possible explanation for this is that, both boys and girls are ultimately interested in getting a good job and helping their families after school. Getting a good job was the most popular reason for studying hard. This is the highest aspiration of the respondents. Table XX shows the respondents' priorities for their hard work in school.

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TABLE XX

Reasons for Studying Hard (in per cent)

	REASONS	BOYS	GIRLS
1.	To get a good job	72	76
2.	To help my parents and family	43	47
3.	To become rich, important, famous	42	23
4.	To live a comfortable life	38	39
5.	To go to University	35	31
6.	To pass my examination	33	40
7.	To build Kenya	23	20
8.	To be a good citizen	11	13

The severity of the problem of unemployment is a major concern for everyone in Kenya. The problem is open and visible and students are aware of this as reflected by their answers in Table XX.

For the students, education is seen as playing a crucial role in their long term aspirations. Education seems to link an expectation of employment and prestige, with an ability to fulfil obligations to parents and the entire family. Other reasons mentioned for studying hard include an opportunity to marry an educated person, to get one's own car, to build a good house, and to "live a better life than my parents".

The parents' influence upon the students' aspirations was also measured by a question on who looks at the student's school report more often.

Table XXI below reports the parent who looks at the students' report by sex of the students and the schools from which they come.

TABLE XXI

The Number of Students whose reports are looked at by Faiher or Mother and the Schools from which they come.

		FATHER		MO	THER		NONE					
SCHOOLS	BOYS	GIRLS	TOTAL	BOYS	GIRLS	TOTAL	BOYS	GIRLS	TOTAL			
KIRANGARI	36	24	60	12	6	18	-	-				
KAHUHO	25	15	40	10	7	17	5	***	5			
UTHIRU	25	16	41	15	2	17	2	**	2			

Table XXI shows that for both boys and girls, the father looks at the school report more often than the mother. According to the reported parental levels of education, it is the parent with some form of education who generally asks for, and comments on the student's progress as required by the schools. In two schools, seven boys reported that no one looks at their school reports. This might be a sign of negligence on the part of the parents concerned or the students simply refuse to give in the report for fear of being reprimanded for low grades.

Using the above as a measure of parental influence on the students, it is the fathers who exert more influence than the mothers, on the students aspirations both for boys and girls. The fathers were also reported to have had more formal education than the mothers. They would therefore be in a position to check on student's progress than their mothers.

Jobs Most Frequently chosen as "Best".

In terms of specific jobs, Table XXII reports the percentage of choices for the ten most frequently mentioned "best" jobs by boys and girls. For boys, other jobs mentioned include a pilot, a cabinet minister, a permanent secretary, and an ambassador. Some boys indicated that swuggling, inspite of its illegal nature and the risk involved, can be a lucrative kind of occupation. For girls, other jobs mentioned include a nurse, an air hostess, and a captain in the armed forces. The latter has become very popular today, as one of the new roles open to women in the society.

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Table XXLI, shows that "business" ranks as the "best" job in the minds of both boys and girls, second only to "engineer" for the boys.

TABLE XXII

Ten Jobs Mest Frequently Chosen

as "Best" (in ver cent)

	JOBS	BOYS	GIRLS
1.	Engineer	22	-
2.	Businessman	17	16
3.	Teacher	15	27
4.	Farmer	10	11
5.	Doctor	9	11
6.	Bank Manager	8	-
7.	Member of Parliament	5	10
8.	Lawyer	4	-
9.	Secretary		6
10.	Accountant	4	4
	% of Total Choices =	94	85
ik na je	Total N =	130	70

A closer look at Table XXII shows that there is little difference in the agreement on "farmer" and "teacher" as the "best" occupations for both boys and girls.

On the whole, professional occupations are chosen as "best", perhaps because of their stability and attractive rewards. The correlation between boys and girls rank order of these occupations is significant at the .05 level.

A fact which deserves to be noted is the high ranking of "farming" and the high preference for "businessman", well before the traditional "white collar jobs". This I believe effectively negates the opinion held by many commentators that students and school leavers as such, are unwilling to work with their hands. While this may be true with some school leavers, the respondents in the study appear to be interested in the kind of job with the most appealing net advantages. The latter include the money income and its regularity.

Summery of the Main Study Results.

Table XXIII below summarises the relationships between the respondents' age; sex; religion; birth order; educational level; family size; fathers' education; mothers' education; fethers' occupation; mothers' occupation; and their educational and occupational aspirations.

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TABLE XXIII

Relationships between variables in the Main Study and

Educational and Occupational Aspirations.

	and a state of the second state of the	and the second									
	Educat	ional Aspi	rations	Occupa	tional Aspi:	rations					
Variables	Boys	Girls	Combined	Boys	Girls	Combined					
Age	r = 0.02	r = 0.09	r = 0.04	r = 0.06	r = -0.01	r = 0.05					
Sex	x ² =	* 15•33		$x^2 = 14.96$							
Religion	x ² =	2.89		$x^2 = 1.28$							
Birth Order	x ²	0.33		x ² =	0.11						
Educational Level	x ² =	9.69*		$x^2 = 8.55^*$							
Family Size	r = 0.09	r = 0.18	r = 0.15	r = 0.02	r = -0.01	r = -0.01					
Fathers' Education	* r = 0.26	* r = 0.39	* r = 0.31	* r = 0.26	* r = 0.24	* r = 0.26					
Mothers' Education	* r = 0.28	* r = 0.36	* r = 0.31	r = -0.03	$\mathbf{r} = -0.15$	r = -0.08					
Fathers' Occupation	r = 0.22	* 1 = 0.22	* r = 0.22	* r = 0.41	* r = 0.31	* r = 0.38					
Mothers' Occupation	* r = 0.36	r = 0.37	# r = 0.36	r = -0.08	r = -0.13 $r = -0.0$						

* Significant at 0.05 level.

Discussion

The results of the Main Study indicate no significant relationships between the respondents' age and their educational or occupational aspirations. The young and the slightly older respondents, express a similar desire for high education and for good jobs. This is unlike Silvey's (1969) finding that the older the student, the higher are his aspirations. This finding, however, supports the findings of Eckland (1965). He found no significant relationships between the age of the respondents in his sample and their aspirations.

Significant relationships emerge between the sex of the respondents and their educational and occupational aspirations. The proportion of boys with high educational and occupational aspirations, was greater than the proportion of girls. McQueen (1969) found that the sex of the respondents in his sample was significantly related to their aspirations. The only difference is that his sample was mainly composed of primary school leavers.

The results also reveal that the religious affiliation of the respondents was not significantly related to their educational or occupational aspirations. The Protestants and the Catholics in the sample showed similar aspirations for high education and good jobs. This is an unexpected finding, because, in the rural areas of Kenya, the religious affiliation of a person is given a lot of emphasis. Bordua (1960) similarly found no significant relationships between the respondents' religion and their aspirations.

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Similarly, the respondents' birth order was not significantly related to their educational or occupational aspirations. The first borns and the later borns in the sample, showed similar educational as well as occupational aspirations. Brownstein (1972) found that the first borns in his sample tended to have slightly higher educational aspirations than the laterborns. This was not the case with occupational aspirations.

The results also indicate that the educational level of the respondents was significantly related to their educational and occupational aspirations. The proportion of form four respondents who were high educational aspirants, was significantly different from the proportion of form one respondents who were high educational aspirants.

The proportion of form four respondents who were high occupational aspirants was significantly smaller than the proportion of form one respondents who were high occupational aspirants.

This finding supports the findings of McQueen (1969), Hicks (1966) and Boyle (1966), that by the time the respondents get to form four, their aspirations tend to be more realistic than when they were in form one. King (1971) found that the propertion of form one students who wished to go to University, dropped to a small proportion by the time they were in form four.

The respondents' family size was not found to be significantly related to their educational or occupational aspirations. Respondents from small families and large families alike, showed

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similar educational as well as occupational aspirations. Cameron (1970) states that respondents from small families had higher aspirations than those from large families in his sample. This is similar to the findings of Sewell (1968). The findings of Foster (1965) however, indicate no significant relationships between the respondents' family size and their aspirations.

The results indicate that the fathers' education was significantly related to the respondents' educational as well as occupational aspirations. Similarly, the respondents' educational as well as occupational aspirations were found to be significantly related to their fathers' occupation. The findings of Elder (1965) and Olson (1972) show that the respondents whose fathers have high education and highly placed jobs, tend to have higher aspirations than thors respondents whose fathers have lower education and less highly placed jobs. A similar finding is reported by Foster (1965). These findings indicate that it is an asset to have a father with a high level of education and a good job, in the formation of aspirations.

The findings of the present study, also indicate that the mothers' education was significantly related to the respondents' educational aspirations, but not to their occupational aspirations. Similarly, the mothers' occupation was significantly related to the respondents' educational aspirations, but not to their occupational aspirations.

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The fathers' and the mothers' education and occupation generally emerge as particularly important factors in the way

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the respondents form their educational as well as occupational aspirations. Education is seen by both parents and students as a means to occupational and social mobility.

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Although it was necessary to do a validation of the respondents' statements about their parents' education and occupation, it was not possible to incorporate it in this study, because the parents themselves were not interviewed. It is recommended that future studies should interview parets as well.

CHAPTER SEVEN

SUMMARY AND CONCLUSIONS

The purpose of this study was to find out the relationships that exist, between secondary school students' educational and occupational aspirations, and their parents' educational attainment and occupational status. The assumption was that the aspirations of students, like their attitudes, are formed to a large extent by the attitudes of their parents.

The major findings in the study indicated that significant relationships exist between the following variables:

- 1. Respondents' sex and their Educational Aspirations.
- 2. Respondents' sex and their Occupational Aspirations.
- 3. Respondents' Level of Education and their Educational Aspirations.
- 4. Respondents' Level of Education and their Occupational Aspirations.
- 5. Fathers' Education and the Educational Aspirations of the respondents.
- 6. Fathers' Education and the Occupational Aspirations of the respondents.
- 7. Mothers' Education and the Educational Aspirations of the respondents.
- 8. Fathers' Occupation and the Educational Aspirations of the respondents.
- 9. Fathers' Occupation and the Occupational Aspirations of the respondents.

 Nothers' Occupation and the Educational Aspirations of the respondents.

The study showed no significant relationships between the following variables:

- 1. Respondents' Age and their Educational Aspirations.
- 2. Respondents' Age and their Occupational Aspirations.
- 3. Respondents' Religion and their Educational Aspirations.
- 4. Respondents' Religion and their Occupational Aspirations.
- 5. Respondents' Birth Order and their Educational Aspirations.
- 6. Respondents' Birth Order and their Occupational Aspirations.
- 7. Respondents' Family size and their Educational Aspirations.
- 8. Respondents' Family size and their Occupational Aspirations.
- 9. Mothers' Education and the Occupational Aspirations of the respondents.
- 10. Mothers' Occupation and the Occupational Aspirations of the respondents.

The results of this study indicate that the sex of the respondents has some influence upon their educational and occupational aspirations. There was generally a higher proportion of boys with high educational and occupational aspirations than there were girls. A possible explanation for this is that the education of both boys and girls is equally emphasised in our Kenyan society today, such that a girl will aspire to have as high education as a boy and also work as hard as possible to get a good job. This could be one reason why both boys and girls had such high educational and occupational aspirations. Clignet (1966) remarks in his study that individual biographical differences such as sex and age have some relevance to the aspirations of students. His study indicated that boys had slightly higher aspirations than girls.

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The level of education of the respondents, emerges as an important variable in the formation of aspirations. There was a larger proportion of form four students with high educational aspirations than there were form one students. With occupational aspirations, however, there was a smaller proportion of form four students with high occupational aspirations than there were form one students. This means that as the students gain more experience in school and more information on what they expect for the future, their aspirations change from fantasy to reality. Somerset (1968) and King (1971) indicate in their studies that given the contingencies of the job market and the limited information available to students, the aspirations of form one students become higher and more realistic as they get into form four.

The results also indicate that high educational and occupational aspirations are characteristic of respondents whose fathers have had high education and also hold good jobs.

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This can be explained by the fact that in homes where fathers have had some education, there are some books, magazines, newspapers and possibly a radio or Television set. Such items are useful to students, and the fathers' initiative and encouragement will also assist the students to form aspirations. Students who are not endowed with such educational tools, may find it difficult to mould their aspirations in the right direction. Somerset (1970) also found that those students who nourished high aspirations had come from families where the parents had had some education. Some caution is needed here, because high aspirations, may also mean unrealistic aspirations. The study shows that there was a large base of mothers with no education. As a result, mothers' education was shown to influence the educational aspirations of the respondents, and not their occupational aspirations. A possible explanation for this, is that mothers who had some education, had occupations outside the home, and the experience which they get from other people through discussions or reading helps them to take greater interest in the education of their children, and thus indirectly encourage and participate in shaping the aspirations of their children. The study generally shows that high aspirations are highly correlated with parental levels of education and the status.of their occupations.

Although the results did not show any significant relationships between the age, religion, birth order, family size, and the educational and occupational aspirations of the respondents, these variables have been shown by other studies to influence

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aspirations. The findings of Raju (1973), Wandera (1971) indicate that these factors need to be taken along with other variables which are related to the formation of aspirations. For instance the religion of the students and that of the parents should be considered. The present study considered only the religious affiliation of the respondents. The family sizes of the majority of the respondents were generally large, and this variable did not significantly affect the formation of aspirations of the respondents. As far as providing for the education of the children is concerned, the first borns and the later borns are treated equally by their parents. This means that birth order per se cannot be said to influence aspirations agreat deal. Other external factors such as the parents' education and occupation are also at play.

It may be concluded in view of these findings, that the role of interpersonal relationships between parents and students, discussions on educational matters too, play a crucial part in the formation of aspirations. In other words, the kind of motivation that students get from their parents need to be emphasised in school and at home. Sewell (1968) concluded from his findings, that " parental influence has direct effects on levels of educational and occupational aspirations, as well as educational attainment".

In terms of the knowledge that students have about the occupations in the modern sector today, the results indicate that students' felt needs and aspirations are mainly geared

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towards those jobs that require high levels of education, and also those jobs that give a good and regular income. This strongly reflects the attitudes of parents in the rural areas of Kenya, towards an income - earning child. The parents of such children, look up to them to provide most things in the home and generally to uplift their standard of living.

From the reasons that students give about working hard in school, it can be seen that they are concerned about the welfare of their families. "To help my parents and family", ranks second to "getting a good job", among the reasons given why students aim high in school. It is important to note that the felt needs and aspirations for income of many girls has tremendously increased due to the new roles open to women in Kenyan society today. Thus the girls in the study aim is high as the boys in terms of both educational and job opportunities. In general, both boys and girls view the years they have spent in school, as a means of obtaining a steady income to satisfy obligations to their families, and invest for their future.

What appears to be the important question in the formation of students' educational and occupational aspirations, concerns the likelihood of structural change and its impact upon the established pattern of schooling. In trying to answer this question, one is confronted by the very fundamental issue of the social nexus of our educational institutions, and the way in which they respond and mould students' aspirations.

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Apart from this, there is the issue of parental influence upon the shaping of students' aspirations.

In view of all this, however, it is worthwhile to note that Education cannot easily be used as a means of altering aspirations, as what an individual aspires to be is only partially related to his schooling. A multiplicity of external factors contribute to the formation of an aspiration.

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From the findings of this study, it is felt that more research should be directed to this field, to obtain data on how aspirations are formed and how students can be helped in the formation of their aspirations. Both the parents and the students should be interviewed.

With findings of this nature, it is felt that adult educators, and school teachers can argue their case more convinvingly to their students. This is mainly because the adaptation of any educational system requires that the needs and aspirations of those who will participate, be carefully investigated, and not assumed a priori.

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In conclusion an intensive effort is needed to inform students of the occupational realities which will face them when they leave school. What appears to be clearly needed is a guidance service in all schools, to provide the basic and moments from about the kinds of jobs that students leaving school can apply for. In addition to this, such information should be relevant to the needs of the students so that they can set their educational and occupational aspirations at the

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level appropriate to their talents. This, I believe, will help to alleviate the frustration which is very much related to misguided aspirations. 2411.013-11

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10.	201	RELIGION	Family Size	BIRTH ORDER	FATHER'S Education	FATHER'S OCCUPATION	MOTHER'S EDUCATION	LEVEL OF EDUCATIONAL ASPIRATION	LUTEL OF OCCUPATIONAL ASPIRATION
1	12	Protestant	6	3	12	12	12	LON	SIGH
2	14	Protestant	6	1	12	12	12	LGri	LIGH
3	13	Hindu	4	4	0	8	0	HICH	गाल
4	14	Protestant	8	4	12	8	0	LOW	T CN
5	12	Catholic	6	5	12	8	8	LON	I AN
6	15	Protestant	5	5	12	12	8	HICH	EL OR
7	13	Muslim	3	3	17	17	8	HICH	HI CH
8	14	Protestent	7	3	0	8	0	HIGH	HICK
9	15	Protestant	7	3	17	17	8	ION	i AV
10	14	Protestant	8	1	12	12	12	ETGS	UTOR
11	15	Protestant	7	2	8	8	0	IGI	TON
12	14	Protestant	8	8	8	8	8	HICH	TON
13	13	Hindu	3	1	12	12	12	LON	200 มาณ
14	15	Protestant	6	4	8	8	0	HIGH	nton
15	14	Catholic	7	1	8	8	8	עסדוו	TIM
16	16	Protestant	6	1	8	8	Ň	TOU	LIGH
Ì	14	Protestant	7 -	4	12	12	8	וויטם זייעדט	LUN
18	15	Protestant	9	Å	8	8	8	nivi	
19	15	Catholic	5	7 2	8	8	0	LUN	LUM
20	16	Catholic	0	י ק	10	0	0	TOA	LOW
	**	AMATATTA	1	I	12	0	8	LON	LOW

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NO.	AGE	RELIGION	FAMILY SIZE	BIRTH ORDER	FATHER'S EDUCATION	FATHER'S OCCUPATION	MOTHER'S EDUCATION	LEVEL OF EDUCATIONAL ASPIRATION	LEVEL OF OCCUPATIONAL ASPIRATION
1	14	Catholic	. 5	1	12	12	8	HICH	TOM
2	16	Protestant	8	1	12	8	12	HIGH	LOW
3	13	7th Day	9	8	12	8	8	HIGH	HIGH
4	15	Hindu	3	4	12	12	12	LON	HIGH
5	14	Protestant	6	1	8	8	8	HIGH	LOW
6	13	Protestant	9	. 1	12	12	12	LON	HIGH
7	14	7th Day	4	1	8	8	8	LOW	LOW
8	15	Catholic	6	2	8	8	0	LOW	HIGH
9	14	Catholic	9	1	12	8	8	HIGH	LOW
10	15	Protestant	5	2	8	8	8	LOW	LOW
11	12	Hindu	2	2	12	8	12	HIGH	HIGH
12	13	Hindu	3	2	12	8	12	HIGH	HICH
13	12	Hindu	2	1	17	8	8	HIGH	LOW
14	13	Protestant	4	1	12	8	8	LCM	HIGH
15	14	Hindu	4	1	8	8	8	TOA	HICH
16	13	Hindu	5.	5	12	8	8	liich	HIGH
17	14	Protestant	6	5	8	8	8	HIGH	HIGH
18	15	Protestart	7	3	8	8	8	LOW	LOW
19	13	Hindu	2	1	8	8	12	LOW	LOW
20	15	Protestant	5	2	12	8	12	HIGH	LGN

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EPPEDIX HI:

RANKING OF SIXTEEN OCCUPATIONS BY BOYS IN PILOT STUDY

	Scores	3	7	5	5	4	3	2	1	-1	-2	-}	-4	-5	-6	-7	2		
	OCCUPATIONS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Total	Rank
1	Primary Teacher	-	-	-	-	.05	.05	•05	.15	.05	.20	.10	.05	15		.05	.10	2.25	12
2	Shopkeeper	-	-	-	-	-	.05	•05	.05	.05	.05	.10	.10	.10	.15	.20	.10	-4.15	16
3	Doctor	.05	.05	.10	.10	.25	.20	.05	.05	•05	.05	.05	-	-	-	-		3.30	3
4	Policeman	-	-	-	-	-	.05	.05	.10	.05	.10	.10	.05	,10	.15	.10	.15	-3.70	15
5	Writer	-	"	.05	-	•	.05	.10	.05	.15	.05	-	.10	.20	.15	.10	-	-2,25	12
6	Clergyman	-	.10	-	.05	.05	-	.05	.05	.10	-	.10	.10	.10	.15	.05	.10	2.05	11
2	Lawyer	.10	.15	.10	.20	.05	.10	-	.10	,05	-	.05	-	-	.05	.05	-	3.20	5
8	<u>}</u>	.20	.05	.25	.20	-	.10	-	-	.10	.05	-	-	-	.05	-	-	4.25	2
9	Secretary	-	-	-		.10	.05	.20	•	"O5	.20	.10	.05	.05	.10	.10	6	-1.55	10

APPENDIX III: (CONTINUED)

÷.	Scores	8	7	6	5	4 .	3	2	1	-1	-2	-3	-4	-5	-6	as7	3		
1 1	OCCUPATIONS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	l'otal	Rank
111	Nurse		.05	-	.05	•		(1)	.05	-	.10	.15	.15	.15	.10	,15	.05	-3.50	14
1	Businessman	.15	.05	•10	.10	.05	.05	.10	.10	.05		.05	.10	-	-	.10		2.00	6
2	Lecturer	. 15	,15		.10	.15	.05	.15	.10	-	•	.05	.05	.05	-	-	da yellere y	3.30	3
25	High Sch. Teacher		.10	.20	.05	.10		•	. 05	.10	.05	.20	-	-	.05	.05	.05	0.70	1
14	Farmer	.05	.05	.05	.05	.05	.05	.05	.10	.05	.10	-	.05	.05	.05	-	. 20	-0.75	9
15	Professor	.25	.25	.20	-	.05	.10	.05	-	.05	•	•	-	-	-	-	.05	5.10	1
10	Hotel Manager	.05		-	.15	.10	.10	.10	.10	-	.05	-	.10	.05	-	.10	•10	-0.20	8

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RANKING OF SIXTEEN OCCUPATIONS BY GIRLS IN PILOT STUDY

	Scures	8	7	6	5	4	3	2	1	-1	-2	-3	-4	-5	6	-7	-8		
	<u>eccupations</u>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Tetal	Rank
n - 4	Primary Teacher	-	.05	-		-	-	.10	.05	.10	.15	.15	.10	.05	.15	.05	-	-1.40	9
2	Snopkeeper	-	-	-	-	•	.05	-	-	-	.10	.05	.10	.05	.15	.15	. 30	-5.20	16
3	Dector	-	.15	.05	•20	.05	.10	.15	.10	.05	.05	.05	-	-	-		-	3.55	4
A	Foliceman	.05	-	.05	-	-	.05	.05	.05	•	.10	.15	.10	.10	.10	.10	.10	-2.65	12
5	Uriter	-	-			•	.05	.05		.05	.05	.10	.05	.30	.15	.15	.05	-4.25	15
3	Clergman	-	-	.05	4	.05	.05	.05	.05	.10	.05	.05	.15	.15	.15	.10		-1.90	11
7	Lawyor	.05	.20	.15	.15	.15	.05	.05	.05	-	-	.05	.05	-	-	.05	-	3.65	3
8	n D	.40	.10	.10	.15	.05	.10	.05	-	.05		-	-	1	-	-	-	5.80	1
9	Secretary	-	-	-	.10	.05	.05	.10	.15	.10	.15	.15	.05	.05	.05	-	-	-0.40	8

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AN CODIN IV: (CONTINUED)

Scores		8	7	6	5	4	3	2	1	-1	-2	-3	-4	-5	-6	-7	-8		•
CCCUPATIONS		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Total	Rank
10	Nurse	.05		-	.10	•25	.05	.20	.05	.15	.05	-	-	-	-	.10		1.55	7
11	Busivessman	-	•	-	•05	.10	.10		. 15	.10	-	.10	.15	.05	.10	-	.10	-1.55	10
12	Lecturer	.05	.10	.20	.15	.05	.05	.10	.05		.10	-	-	.15	-	-	-	2.70	5
13	High Sch. Teacher	.05	.15	•	•	.20	.25	.05	.05	.05	.10	.05	.05	-	-	-	-	2.55	6
14 14	Farmer	.15	-	•05		-	-		.05	.05	.05	-	.15	.05	.10	.20	,15	-2.65	12
15	Frofessor	.10	.25	.30	.15	.05		•05	.05	.05	-	-	-	-	-	-	-	5.40	2
16	Hotel Manager	.05	-			-	.05	-	.25	.15	.05	.05	-	.05	.05	.10	,20	-2.75	14

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APFENDIX V

QUESTIONNAIRE USED FOR PILOT STUDY

High School Student's Educational and Occupational Aspirations:

le	(a)	How many brothers and sisters do you have?
	(Ъ)	What is your position in the family? 1st born / 2nd born etc.
	(c)	What is your age? years.
	(a)	What is your religion?

2. Looking realistically at your future, how do you think your chances are of continuing your education beyond 4th form. Tick appropriately:

I*m	certain	to	continue	mу	education.
-----	---------	----	----------	----	------------

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- I have a reasonable chance of continuing.
- ____ I will certainly not be able to continue.

3. If you have the chance to continue your education beyond • 4th form, which of these Institutions would you like to join? Write 1 besides your 1st choice, and 2 besides your 2nd choice.

	A Teacher Training College	
	A Technical Institute	
er program la provincia de servere	An Agricultural Institute	
10.78-0 ₁ = 10 = 10 = 10	Complete Higher School Certificate	
	Commercial Training	
	Nursing School	
99 -Is this true about you? Tick appropriately: 4. My parents want me to go on for further Education (a) Yes () No () My parents do not mind if I go on or not (b) No () Yes () My parents do not want me to go on any further (c)Yes () No (My parents have no knowledge of further Education (d)Yes () No () Which of these is true of your father's Education 5. Did not go to school (a)Had Primary Education **(b)** (c) Had Secondary Education Had University Education (d) Don't know (e) Did your father have any Education or Training of other 6. kinds e.g. in a Trade School, Secretarial School, Teacher Training etc.? Yes () No () If Yes, explain briefly And the second second second second second second Which of these is true of your mother's Education 7.-(a) Did not go to school

(b) Had Primary Education

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	(c)	Had Secondary Education
	(d)	Had University Education
	(e)	Don't know
8.	Did	your mother have any Education or Training of other
kinds	e.g.	in a Nursing School, Teacher Training, Sccretarial
Schoo	1?	
		Yes () No ()
If Ye	s, ex	plain briefly
9.	Whic	h one of your relatives has the highest level of
Educa	tion?	
	(a)	Parents - Father or Mother
×	(b)	Brother
	(0)	Sister

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(d) Myself

Indicate the level of Education

10. What is your father's occupation?
11. What is your mother's occupation?
12. If you could have all the training necessary for a job, what job would you train for?

13. What level of Education do you think is sufficient for the job of your choice?

14. Which job do you think your parents would most like to see you do after school?

15. What is the best job to have in Kenya today?

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16. Getting a good job in Kenya today depends on luck rather than ability and willingness to work.

Agree	
Not Sure	
Disagree	

Tick appropriately.

17. A good Education does not necessarily mean a good job today.

Agree	
Not Sure	
Disagree	

Tick appropriately.

18. Rank the following occupations in terms of their prestige in Kenya.

1.	Primary School Teacher	9.	Secretary
2.	Shopkeeper	10.	Nurse
3.	Doctor	11.	Businessman

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- 4. Foliceman
- 5. Writer
- 6. Clergyman
- 7. Lawr
- 8. Member of Parliament

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- 12. University Lecturer
- 13. High School Teacher
- 14. Farmer

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15. University Professor

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16. Hotel Manager.

AFPENDIX VI

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Ξŧ.

CUESTICIMAIRE USED FOR THE MAIN STUDY

High School Student's Educational and Occupational Aspirations:

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1.	That is your age? years
2.	How many brothers sisters
	do you have?
3+	What is your position in the family?
	(i.e. 1st, 2nd or 3rd born etc.)
4.	What is your Religion?
	1. Catholic
	2. Protestant
	3. Muslim
	4. Hindu
	5. None
5.	Which of these is true of your father's Education?
	1. Did not go to school
	2. Had primary education
	3. Had secondary education
	4. Had University education
	5. Don't know
6.	Which of these is true of your mother's Education?
	1. Did not go to school
	2. Had primary education
	3. Had secondary education
	4. Had University education
	5. Don't know

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7. What is your father's occupation?
8. What is your mother's occupation?
9. Looking realistically at your future, how do you think
your chances are of continuing your education beyond 4th form?
Tick appropriately:
I am certain to continue
I have a reasonable chance of continuing
I will certainly not be able to continue.
10. If you have the chance to continue your Education beyond
4th form, which of the following would you like to join?
A Teacher Training College
A Technical Institute
An Agricultural Institute
A Higher School Certificate Class
A Commercial College
A Nursing School.
Indicate your First and Second Choices
11. If it were possible to get the necessary training, what
job would you train for?
12. What level of Education do you think would be necessary
for that job?
1. Primary Education

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2. Secondary Education

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3. University Education

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13. What is the best job to have in Kenya today?

14. Rank the following occupations in terms of their prestige in Kenya. Primary School Teacher Secretary 9. 3.00 10. Nurse Shopkeeper 2. Businessman 11. Doctor 3.0 University Lecturer 12. Policeman 4. High School Teacher 13. Writer 5. Farmer 14. Clergyman 6. University Professor 15. Lawyer 7. Hotel Manager. 16. Member of Parliament 8. What level of Education do you think your mother would 15. like to see you attain? What level of education do you think your father would 16. like to see you attain? What kind of occupation do you think your mother would 17. like to see you do after school? What kind of occupation do you think your father would 18. like to see you do after school? Who looks at your school Report more often? 19. 1. Mother the second s

2. Father

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20. State 3 reasons why you are studying hard in school?

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2.	AND STATE OF A DESCRIPTION OF A DESCRIPT
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RANKING OF SIXTEEN CCCUPATIONS BY BOYS IN MAIN STUDY

	Scores	8	7	6	5	4	3	2	1	-1	-2	-3	-4	-5	-6	-7	-8		
	Occupations .	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Total	Rank
1	Frimary School Teacher	0.16	0.28	0.30	0.25	0.08	0.03	0.40	0.30	0.04	0.18	0.21	0.44	0.60	0.90	0.70	0.72	-2.70	14
2	Shopkeeper	-	-	-	-	0.08	0.09	0.10	0.06	0,02	0.10	0.27	0.36	0.70	1.08	0.91	1.04	-4.25	16
3	Vector	0.95	1.26	0.72	0.75	0.44	0.18	0.10	0.06	0.04	0.04	0.12	0.16	-	-	-	÷	4.21	1
4	Policeman	-	0.14	0.12	0.20	0.16	0.12	0.10	0.05	0.05	0.10	0.18	0.16	0.20	0.43	10.91	2.16	-3.35	15
-	friter	-	-	0.24	0.25	0.36	0.15	0.12	0.10	0.10	0.20	0.27	0.48	0.25	0.24	0.28	0.40	-1.00	10
S	Clergyman	-	-	-	0.20	0.16	0.24	0.12	0.07	0.12	0.10	0.36	0.36	0.40	0.54	0.77	0.80	-2.66	13
7	anyer	0.48	0.42	0.78	0.50	0.48	0.36	0.24	0.09	0.04	0.06	0.15	0.16	0.20	-	-	-	2.74	6
5	ember of Farliament	0.96	0.63	0.72	0.30	0.32	0.27	0.20	0.06	0.08	0.04	0.06	0.20	0.10	0.12	0.28	0.32	2.26	7

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PREDIX VII (CONTINUE)

			-							_						÷.,			
	Scores	8	7	6	5	4	3	2	1	-1	-2	-3	-4	-5	-6	-7	-8		
	Counctions	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Total	Rank
G	Secretary	-	-	-	0.20	0.20	0.12	0.08	0.08	0.12	0.20	0.36	0.48	0.60	0.78	0.28	0.32	-2.46	12
10	lurse	-	0.42	0.24	0.25	0.20	0.12	0.12	0.08	0.07	0.20	0.36	0.48	0.30	0.24	0.42	0.48	-1.12	11
1	Businessman	1.20	0.84	0.48	0.60	0.24	0.27	0.12	0.09	0.05	0.08	0.06	0.08	0.20	0.18	0.21	-	2.98	4
2	University Lecturer	0.32	1.33	0.90	0.70	0.32	0.36	0.12	0.04	0.02	0.04	0.12	0.16	0.10	0.12	0.14	0.08	3.29	3
140	Teacher	-	0.14	0.24	0.25	0.36	0.36	0.16	0.11	0.13	0.18	0.30	0.16	0.20	0.24	0.14	-	0.27	8
4	Parter		1.84	0.55	0.60	0.30	0.24	0.18	0.12	0.08	0.07	0.10	0.16	0.30	0.12	0.07	0.08	2.96	5
5	Professor	2.08	0.98	0,72	0.50	0.32	0.12	0.08	0.04	0.02	0.08	0.06	0.08	0.10	0.24	0.14	80.0	4.04	2
16	Hotel Manager	0.32	0.35	0.30	0.25	0.32	0.24	0.16	0.05	0.06	0.18	0.27	0.20	0.40	0.30	0.42	0.40	-0.14	9

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RANKING OF SIXTEEN OCCUPATIONS BY GIRLS IN MAIN STUDY

	Scores		1	6	5	4	3	2	1	-1	-2	-3	-4	-5	-6	-1	-8		
	COUPATIONS	1	2	3	4	5	6	1	8	9	10	11	12	13	14	15	16	Total	Hank
1	Primary School Teacher	0.32	0.28	0.24	0.1	0.28	0.12	0.08	0.01	0.03	0.08	0.21	0.68	0.60	0.54	0.53	0.48	-1.77	11
RP-law	Shopkeeper	-	0.21	0.06	-	-	0.09	0.06	-	0.01	0.14	0.30		0.50	0.66	1.89	1.68	-4.76	16
3	Dictor	1.12	0.70	0.66	0.95	0.44	0.57	0.02	0.01	0.07	0.02	0.09	0.04	•	-	-	-	4.25	1
44	Foliceman	-	-		0.35	0.04	0.18	0.14	0.07	0,01	0.08	0.12	0.06	0.45	0.72	0.42	2.40	-3.58	15
5	Triter			-	0.05	0.16	0.09	0.20	0.09	0.03	0.28	0.30	0.48	0.60	0.54	0.63	0.08	-2.35	14
5	Clergyman	•	0.21	0,06	(1.05	0.12	0.30	0.14	0.09	0.04	0.24	0.30	0.28	0.35	0.36	0.49	0.88	-1.97	13
-	laiyer	0.24	0.28	C.84	0.85	0.56	0.21	0.14	0.09	0.11	0.06	0.09	0.12	0.05		0.07	0.08	2.63	5
S	Wamber of Parliament	1.12	0.49	1.38	0.55	0.36	0.12	0.08	0.04	0.06	0.06	0.18	0.04	0.20		-	0.24	3.36	4

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CONTRACTOR (CONTINUED)

iAma (J	ally successive dealers and the				-	-				-	_	_			1	ale A schulle and			
	Scores	8	7	6	5	4.	3	2	1	-1	-2	-3	-4	-5	N) N	-?	-3		
14° 18	COULTATICUS	1	2	3	4	5	6	1	8	9	10	11	12	13	14	lj	16	Total	Rank
	Soretary	-	0.07	0.06	0.35	0.04	0.09	0.08	0.07	0.20	0.24	0.21	0.28	0.35	0.54	0.63	0.24	-1.93	12
	Turse	0.08	0.28	0.42	0.20	0.44	0.12	0.20	0.07	0.04	0.18	0.21	0.44	0.35	0.24	0.49		-0.14	8
	Susinessman	0.80	0.49		0.15	0.12	0.09	0.18	0.10	0.09	0.08	0.18	0.36	0.35	0.66	0.12	0.32	-0.53	9
, в	l'aiversity l'acturer	0.56	1.68	1.38	0.35	0.36	0.12	0.02	0.06	0.03	0.02	0.12	0.12	0.05	0.05	0.21	0.08	3.84	3
ц. П.	righ School Teacher	0.08	0.21	0.24	0.45	0.28	0.63	0.24	0.12	0.07	0.14	0.18	0.04	0.20	0.06		én (1.56	6
ŀ.	Farmer	1.28	0,21	0.42	0.05	0.16	0.12	0.18	0.09	0.07	0.14	0.12	0.40	0.15	0.42	0.42	0.24	0.55	7
	Professor	1.92	1.47	0.84	0.45	0.28	0.03	0.14	-	0.01	0.06	0.12	0.16	0.15	0.36	0.07	0.08	4.12	2
	Potel Manager	0.08	0.28	-	0.20	0.36	0.12	0.14	0.07	0.10	0.18	0.12	0.16	0.50	0.60	0.49	0.72	-1.62	1.0

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CHARACTERISTICS OF CIRLS IN THE MAIN STUDY

ncensus necesi	ACE	RELICION	porm (CLASS)	Plmily Size	BIRTH ORDER	FATHER'S EDUCATION	FATHER'S OCCUPATION	MCTHER'S EDUCATION	NCTHER'S OCCUPATION	EDUCATIONAL ASPIRATION	OCCUPATIONAL ASPIRATION
1	17	Protestant	4	7	1	12	8	0	0	HICH	LON
2	17	Protestant	4	9	6	0	8	0	0	Tur	HICH
3	18	Protestant	4	9	1	8	8	0	0	Hi ch	HIGH
4	14	Protestant	1	11	6	8	0	12	8	nita	LOW
5	15	Catholic	1	11	3	12	0	0	0	Lon	TOM
6	15	Catholic	1	6	1	8	12	0	0	Los	HIGH
7	18	Protestant	4	8	3	0	8	8	12	HIGH	HIGH
8	16	Protestant	1	9	6	0	12	12	8	Righ	LCW
9	15	Catholic	1	8	1	8	0	0	0	TOA	HICH
10	16	Protestant	1	7	2	0	0	0	0	TU!!	LOW
11	16	Protestant	5 1	4	1	0	0	0	0	LCH	LOW
12	19	Protestant	; 4	1	1	0	0	0	0	LOH	LOW
13	16	Catholic	1	5	1	17	8	8	0	HICH	HIGH
14	16	Catholic	1	8	4	8	8	12	8	III	HIGH
15	16	Catholic	4	7	1	12	0	0	0	HICH	HIGH
16	15	Catholic	1	9	1	0	0	8	12	HICH	LOW
17	17	Protestant	; 4	7	2	8	12	0	0	HIGH	HIGH
18	16	Protestant	; 4	1	3	8	12	8	8	HIGH	HICH
19	18	Protestant	; 4	1	5	0	12	0	0	LOW	HICH

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THE TOTAL TY (ACHITHORN)

CIENTECT 10.352R	AGE	RELICION	fcen (class)	PAMILY SIZE	BIRTH ORDER	FATHER'S EDUCATION	FATHER'S OCCUPATION	MOTHER'S EDUCATION	MOTHER'S OCCUPATION	EDUCATIONAL ASPIRATION	OCCUPATIONAL ASPIRATION
20	16	Catholic	1	7	1	0	0	8	8	LOW	LOW
21	16	Catholic	1	6	1	8	8	0	0	IGN	HIGH
22	14	Protestant	1	2	8	0	8	8	8	HICH	HICH
23	16	Catholic	1	4	1	12	12	0	0	HIGH	HICH
24	16	Catholic	1	6	3	12	8	0	0	HIGH	HICH
25	18	Frotestant	4	4	1	8	0	0	0	LCM	HIGH
26	18	Protestant	4	7	5	0	0	8	12	HIGH	LOW
27	17	Cathelic	4	6	4	0	0	0	0	HIGH	ĦGH
28	18	Catholic	4	3	2	0	0	8	8	urar	IOW
29	20	Catholic	4	6	1	17	8	0	0	HEEL	HIGH
30	18	Protestant	4	6	6	8	8	0	0	10%	HICH
31	19	Protestant	4	3	4	0	0	0	0	LC/	LOW
32	13	Protestant	1	5	3	8	12	12	12	HIGH	HIGH
33	13	Catholic	1	9	1	12	8	8	8	HICH	HICH
34	17	Protestant	4	5	2	0	8	8	8	HIGH	HIGH
35	14	Catholic	1	2	3	8	0	8	12	NICH	LOW
36	18	Protestant	4	9	5	8	12	8	12	HIGH	HIGH
37	17	Catholic	4	7	1	0	12	0	0	ICH	LOW
38	18	Protestant	4	9	6	8	0	8	8	HIGH	HICH
39	19	Protestant	4	4	4	0	8	12	8	HIGH	LOW
40	16	Protestant	1	7	1	8	0	8	8	HICK	LOW

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SUBJECT NUCBER	AGE	RELIGION	FORM (CLASS)	FAMILY SIZE	BIRTH ORDER	FATHER'S EDUCATION	FATHER'S OCCUPATION	NOTHER'S EDUCATION	Mother's Occupation	EDUCATIONAL ASPIRATION	OCC ASF	UPATIONAL TRATION
41.	18	Catholic	4	6	4	8	0	0	0	LASI		HICH
42	17	Catholic	4	7	3	8	12	0	0	HIGH		HICH
43	14	Catholic	1	9	1	0	12	0	0	HIGH		LOW
44	17	Catholic	4	2	3	8	12	12	8	HIGH	it.	LOW
45	14	Protestant	1	5	3	8	0	0	0	ICH		HICH
46	18	Protestant	4	8	3	0	0	8	8	104		HICH
47	13	Catholic	1	4	2	0	0	8	8	LOW		LCW
48	15	Catholic	1	6	5	0	8	0	0	LCN		LOW
49	16	Catholic	1	6	1	8	0	0	0	HIGH		LOW
50	15	Protestant	1	8	3	8	8	0	0	101		HICH
51	16	Protesiant	1	7	6	17	0	0	0	HIGH		HICH
52	15	Protestari	1	7	3	8	8	0	0	HIGH		LOW
53	15	Protestant]	7	1	8	8	8	12	HICH		HICH
54	17	Catholic	4	3	2	0	0	0	0	TC.		LOW
55	17	Catholic	4	6	1	0	0	12	8	LCS		LOW
56	18	Catholic	4	4	4	0	12	8	8	LOM		HICH
57	20	Protestant	4	8	1	8	12	0	0	HIGH		LOW
58	15	Catholic	1	7	1	0	8	0	0	HIGH		HICH
59	19	Proiestant	4	10	2	17	8	0	0	HICH		HICH
60	14	Protestant	1	6	2	12	0	0	0	LOW		LOW

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SCRUE CT 1 C.JER	ACE	RELICION	FORM (CLASS)	FAMILY SIZE	BIRTH ORDER	FATHER'S EDUCATION	PATHER'S OCCUFATION	MOTHER'S EDUCATION	MOTHER'S OCCUPATION	EDUCATIONAL ASPIRATION	OCCUPATIONAL ASPIRATION
61	19	Catholic	4	5	1	0	8	8	8	HIGH	HICH
62	16	Protestant	1	8	3	12	8	8	12	FJ. GT	LOW
63	20	Protestant	4	11	1	12	8	0	C	HIGH	LOW
64	18	Protestant	4	5	1	0	8	8	8	HIGH	HIGH
65	18	Catholic	-1	7	2	0	0	0	0	LCVi	LON
66	17	Protestant	4	5	2	0	, 8	8	12	TC.N	LOW
67	17	Protestant	4	4	1	0	12	0	0	LCN	HIGH
58	15	Catholic	1	3	2	0	0	0	0	DOM	HIGH
59	14	Protestant	1	5	1	0	12	0	0	P0A	HICH
70	13	Protestant	1	7	4	0	12	0	0		HICH

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CHARACTERISTICS OF BOYS IN THE MAIN STUDY

STEUROT : UVEER	AGE	RELIGION	form (class)	PANILY SIZE	BIRTH ORDER	FATHER'S EDUCATION	FATHER'S OCCUPATION	MOTHER'S EDUCATION	MOTHER'S OCCUPATION	EDUCATIONAL ASPIRATION	OCCUPATIONAL ASPIRATION
1.	20	Protestant	4	3	2	0	0	0	0	IC',	HICH
2	15	Catholic	1	8	3	8	0	8	8	HIGH	LOW
3	16	Catholic	1	8	1	0	0	8	8	LOH	LOW
4	16	Protestant	1	6	1	0	8	0	0	TC:1	HIGH
5	16	Protestant	1	9	5	0	8	12	8	HIGH	HICH
6	18	Protestant	4	6	1	0	0	12	8	HIGH	TOK.
1	15	Protestant		7	1	8	0	0	0	ICI	LOW
8	16	Catholic	1	4	1	12	0	0	0	ICh	HIGH
9	16	Protestant	4	4	1	0	8	8	8	HIGH	LOW
10	20	Catholic	4	9	4	8	8	0	0	ION	LOW
11	17	Catholic	4	10	1	8	12	8	8	HIGH	HICH
	17	Catholic	4	7	5	8	12	0	0	LOW	LOW
13	17	Protestant	4	2	2	0	0	12	8	LON	LOW
-	17	Protestant	4	5	1	0	0	0	0	$\int f_{T}^{1d}$	LOW
15	18	Catholic	4	б	6	0	8	8	8	ICX	LOW
16	19	Catholic	4	10	1	12	8	0	0	I 04	HIGH
	16	Protestant	1	4	1	0	0	8	8	LON	LOW
18	14	Frotestant	1	5	3	0	0	0	0	TC.1	LOW
19	15	Protestant	1	4	1	8	0	8	8	HIGH	LOW
20	15	Catholic	1	5	2	17	8	0	0	KIGH	HIGH

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SUBLICCT	735	RELICION	FORM (CLASS)	FAMILY SIZE	BIRTH ORDER	FATHER'S EDUCATION	FATHER'S OCCUPATION	NOTHER'S EDUCATION	MOTHER'S OCCUPATION	EDCCATIONAL ASPIRATION	OCCUPATIONAL ASFIRATION
21	15	Catholic	1	1	1	0	0	8	8	HIGH	IUN
22	18	Frotestant	1	6	3	0	12	0	0	102	LON
23	13	Protestart	4	10	1	0	0	8	8	I OV	LUN
24	17	Protestant	4	4	4	0	0	0	ũ	TON	1A/W
25	16	Protestant	1	7	1	0	8	12	12	HICH	LAW TOU:
26	16	Catholic	1	7	2	8	12	0	0	TOM	LUN UT OU
27	16	Catholic	1	3	3	8	12	8	8	In	LUU LUU
28	16	Catholic	1	9	1	8	12	0	0	TO:	LAJW UT <i>ru</i>
29	18	Protestant	4	10	1	0	0	8	8	I CH-	TUN
30	15	Protestant	1	7	2	0	0	0	.	нтен	LOW
31	15	Protestant	1	7	1	12	8	12	12	HTOS	UTON
32	13	Catholic	1	6	5	0	0	0	0	TON	
33	17	Catholic	4	4	4	0	0	0	0	10h	tou
34	19	Catholic	4	10	1	8	12	0	ũ	нтон	TON
35	17	Catholic	4	3	1	0	12	0	0	LUN	LWW LITOU
36	19	Protestant	4	6	4	17	12	0	Ň	нтся	
37	17	Protestant	4	9	3	12	0	B	8	ווענוו ניי <i>ן</i> דוו	TOU
38	19	Catholic	4	8	1	12	0	0	0	Inton	LUN
39	19	Catholic	4	3	3	12	8	0	0	LON.	
40	20	Protestant	4	6	1	0	8	Ŕ	10		MIGH
41	14	Protestant	1	11	5	0	8	12	8	HIGH	HIGH
									Ŧ	THAT	TAN

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SUBJECT Muliber		RELICION	FORM (CLASS)	FAMILY SIZE	BIRTH ORDER	FATHER'S EDUCATION	FATHER'S OCCUPATION	MOTHER'S EDUCATION	MOTHER'S OCCUPATION	EEUCATIONAL ASPIRATION	OCCUPATIONAL ASFIRATION
21	15	Catholic	1	1	1	0	0	8	8	HIGE	LON
22	18	Frotestant	1	6	3	0	12	0	0	103	1.0W
23	13	Protestant	4	10	1	0	0	8	8	LOW	LOW
24	17	Protestant	4	4	4	0	0	0	0	LOV	tou
25	16	Protestant	1	1	1	0	8	12	12	HIGH	LON
26	16	Catholic	1	7	2	8	12	0	0	LOH	UUN UTAU
27	16	Catholic	1	3	3	8	12	8	8	100	TON
28	16	Catholic	1	9	1	8	12	0	0	TON	
29	18	Protestant	4	10	1	0	0	8	8	LCA	TOU
30	15	Protestant	1	7	2	0	0	0	Ũ.	итен	TON
31	15	Protestant	1	7	1	12	8	12	12	UTO:	LUN
32	13	Catholic	1	6	5	0	0	0	10	len	AIGH
33	17	Catholic	4	4	4	0	0	0	0 0	LUA TÊSI	LUN
34	19	Catholic	4	10	1	8	12	0	0	LA W	LON
35	17	Catholic	4	3	1	0	12	0	0	TON TON	LOW
36	19	Protestant	4	6	4	17	12	0	0	UTOT	HIGH
37	17	Protestant	4	9	3	12	0	8	R	ПЦ0 <u>)</u> ; I'T ал	HIUH
38	19	Catholic	4	8	1	12	0	Õ	0	ILL Gil	LUW
39	19	Catholic	4	3	3	12	8	0	٩ ٥	LOW	
40	20	Protestant	4	6	1	0	Ř	Ŕ	V	Livii	HIGH
41	14	Protestant	1	11	5	0	8	12	8	HIGH HIGH	HIGH LOW

ATTENDIX X (CONTINUED)

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CUBIFOT ULBRA	ACE	RELIGION	FCRM (CLASS)	PANILY SIZE	BIRTH ORDER	PATHER'S EDUCATION	FATHER'S OCCUPATION	NOTHER'S EDUCATION	MOTHER'S OCCUPATION	NEUCIATIONAL ASPIRATION	OCCUPATIONAL ASPIRATION
42	19	Protestant	4	3	1	12	0	0	0	LOW	HICH
43	14	Protestant	1	6	1	0	0	0	0	TCH	LOH
44	17	Protestant	1	8	1	0	0	0	0	Life	LOW
45	18	Frotestant	1	6	3	0	0	0	0	ION	LOW
46	17	Protestant	1	8	4	8	12	0	0	HICH	HIGH
47	19	Catholic	4	8	2	12	12	8	8	HICH	HIGH
48	20	Catholic	4	7	1	8	0	0	0	HIGH	HIGH
49	18	Catholic	4	5	4	0	0	8	8	HECH	LOW
50	19	Protestant	1	9	1	8	8	0	0	FIGH	HIGH
51	14	Protestant	1	8	4	8	8	8	8	HICH	HIGH
52	16	Catholic	1	11	1	0	8	0	0	Tutt	HIGH
53	16	Catholic	1	9	1	0	0	12	12	IGV.	LON
54	13	Protestant	1	7	5	12	12	0	0	TOM -	HICH
55	16	Protestant	1	6	1	8	0	8	12	HICH	HIGH
56	16	Protestant	1	7	1	8	8	0	0		HICH
57	16	Protestant	1	4	1	12	8	· 0	0	HIGH	HICH
58	20	Catholic	4	10	1	8	0	0	0	LOW	HIGH
59	17	Catholic	4	8	1	0	0	12	8	HICH	LOW
60	19	Catholic	1	4	4	0	0	0	0	HIGH	HICH
61	16	Protestant	1	5	6	0	0	8	12	HICH	LOW
62	16	Protestant	1	7	1	8	12	0	0	HIGH	HICH

AFPENDIX X (CONTINUED)

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SUMECT "UMBUR	ACE	RELICION	FORM (CLASS)	PAMILY SIZE	BIRTH ORDER	PATHER'S EDUCATION	PATHER'S OCCUPATION	MOTHER'S EDUCATION	NOTHER'S OCCUPATION	SEUCATIONAL ASPIRATION	OCCUPATIONAL ASPIRATION
63	16	Catholic	1	8	1	8	12	0	0	LOW	HIGH
64	15	Protestant	1	7	1	0	0	0	0	TON	LOW
65	15	Catholic	1	1	4	8	8	8	8	HICH	HICH
66	17	Catholic	4	11	1	8	8	0	0	LOW	TO M
67	16	Catholic	1	7	1	8	0	12	0	LOW	HICK
68	16	Protestant	1	10	2	0	8	8	12	HIGH	HIGH
<u> 69</u>	13	Protestant	1	8	3	8	0	0	8	HICH	LOW
70	18	Protestant	4	1	1	12	12	8	12	HIGH	HIGH
71	16	Catholic	1	8	3	. 0	12	0	0	TOM	LOW
72	18	Protestant	4	7	1	8	0	8	8	HICH	HIGH
73	17	Catholic	4	9	3	0	8	8	8	HICH	TOA
74	19	Protestant	4	6	2	8	0	8	8	HIGH	TON
75	18	Protestant	4	3	3	12	0	0	0	LON	HICH
75	18	Catholic	4	9	5	8	8	0	0	HIGH	HIGH
77	18	Catholic	4	7	3	0	12	0	0	HIGH	LOW
78	17	Catholic	4	8	4	8	8	8	8	HICH	TOM
79	17	Catholic	4	6	1	17	0	0	0	TO:	HICH
03	16	Protestant	1	5	2	0	0	8	8	Toh	HIGH
81	15	Protestant	1	7	3	0	0	8	8	IGH	LOW
82	16	Protestant	1	7	2	0	8	0	0	LCW	LOW

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WILLIAM (AAAAAA)

SUBJECT. MILBER	IGE	RELIGION	FORM (CLASS)	FAMILY SIZE	BIRTH ORDER	FATHER'S EDUCATION	FATHER'S OCCUPATION	MOTHER'S EDUCATION	MOTHER'S OCCUPATION	EDUCATIONAL ASPIRATION	OCCUPATIONAL ASPIRATION
83	17	Protestant	1	6	1	12	0	0	0	HIGH	LOW
84	17	Protestant	1	8	5	8	8	0	0	LON	HICH
85	18	Protestant	1.	7	1	8	0	0	0	HICH	HICH
86	17	Catholic	4	8	2	8	12	0	0	HIGH	LOW
87	19	Catholic	1	9	1	8	12	8	8	HIGH	HICH
88	17	Protestant	1	6	3	0	0	0	0	LOW	LOW
89	17	Catholic]	5	4	0	0	8	8	LOW	LOW
90	16	Protestant	1	7	1	0	12	8	8	I.O.V	HIGH
<u>61</u>	15	Protestant	1	5	1	8	12	0	0	HIGH	LON
92	15	Protestant	1	7	1	0	12	0	0	HIGH	HICH
93	13	Catholic	1	5	3	8	12	0	0	HIGH	HIGH
94	15	Catholic	1	10	1	12	0	0	0	10H	ICN
95	15	Protestant	1	7	4	0	8	8	12	HIGH	HIGH
96	13	Protestant	1	5	1	8	8	8	12	HICH	10:1
07	14	Catholic	1	8	4	8	8	0	0	HIGH	LOW
98	15	Catholic	1	7	1	0	12	8	8	HIGH	HIGH
99	14	Catholic	1	12	1	0	0	0	0	LCW	TOM
1.00	14	Catholic	1	5	4	0	8	8	8	LOH	LOW
10]	14	Protestant	4	5	1	0	8	0	0	IC!!	HICH
102	18	Catholic	1	7	5	0	0	0	0	LOW	HIGH
103	15	Frotestant	1	2	1	0	8	0	0	LOW	HIGH

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AFPENDIX X (CONTINUED)

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SUBJECT. MULBER	1.CE	RELICION	FORM (CLASS)	FAMILY SIZE	BIRTH ORDER	FATHER'S EDUCATION	FATHER'S OCCUPATION	MOTHER'S EDUCATION	MOTHER'S OCCUPATION	EDUCATIONAL ASPIRATION	OCCUPATIONAL ASPIRATION
83	17	Frotestant	1	6	1	12	0	0	0	HICH	LOW
84	17	Protestant	1	8	5	8	8	0	0	LO2	HIGH
85	18	Protestant	1	7	1	8	0	0	0	HIGH	HICH
86	17	Catholic	4	8	2	8	12	0	0	HIGH	LOW
87	19	Catholic	1	9	1	8	12	8	8	HIGH	HICH
83	17	Protestant	1	6	3	0	0	0	0	LOW	LOW
68	17	Catholic	1	5	4	0	0	8	8	LCH	LOW
90	16	Protestant	1	7	1	0	12	8	8	LOH	HIGH
91	15	Protestant	1	5	1.	8	12	0	0	HICH	LOW
92	15	Protestant	1	7	1	0	12	0	0	HIGH	HICH
93	13	Catholic	1	5	3	8	12	0	0	HIGH	HICH
94	15	Cathelic	1	10	1	12	0	0	0	1,0W	LCW
95	15	Protestant	: 1	7	4	0	8	8	12	HICH	HIGH
96	13	Frotestant	1	5	1	8	8	8	12	HICH	T0:1
97	14	Catholic	1	8	4	8	8	0	0	HIGH	LOW
66	15	Catholic	1	7	1	0	12	8	8	HICH	HIGH
99	14	Catholic	1	12	1	0	0	0	0	LOW	LCW
100	14	Catholic	1	5	4	0	8	8	8	TCA	LOW
101	14	Protestant	4	5	1	0	8	0	0	LOU	HIG8
102	18	Catholic	1	7	5	0	0	0	0	LON	HICH
103	15	Frotestant	1	2	1	0	8	0	0	LON	HIGH

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APPENDIX X (CONTINUED)

SUBJECT MINBER	.'GE	RELIGION	FORM (CLASS)	PAMILY SIZE	BIRTH ORDER	FATHER'S EDUCATION	FATHER'S OCCUPATION	MOTHER'S EDUCATION	MOTHER'S OCCUPATION	EDUCATIONAL ASPIRATION	OCCUPATIONAL ASPIRATION
104	15	Protestant	1	6	2	0	12	0	0	im.	HICH
105	20	Frotestant	1	5	2	0	12	8	8	HIGH	LOW
106	18	Protestant	4	9	2	8	8	0	0	HIGH	LOW
107	18	Catholic	4	7	1	8	8	0	0	HICH	HICH
108	18	Catholic	4	9	4	8	0	8	8	HIGH	HICH
109	19	Protestant	4	5	2	0	12	0	0	1/3.1	HICK
110	18	Protestant	4	7	5	0	0	8	8	HIGH	LOW
111	17	Protestant	4	9	4	0	8	0	0	TUN	LOW
112	10	Protestant	4	7	4	0	0	8	8	TOA	HIGH
113	18	Protestant	4	6	1	0	0	0	0	ION	LOW
	17	Catholic	4	7	6	8	12	8	12	HIGH	HICH
115	19	Catholic	1	10	4	8	12	0	0	HIGH	HICH
116	18	Catholic	4	11	5	8	0	0	0	HIGH	LOW
117	18	Proiestant	4	8	5	0	0	8	8	LON	HIGH
118	19	Catholic	4	5	5	8	0	0	0	LON	LOW
119	18	Frotestant	4	7	1	0	0	8	8	101	LON
120	19	Catholic	4	7	5	0	8	8	8	HIGH	HICH
121	20	Protestant	4	1	6	8	0	0	0	LCW	LOW
122	17	Protestant	Ą	5	3	0	0	0	0		HICH
123	17	Protestant	4	7	3	0	0	8	8		HIGH

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FFEDIX X (CONTINUED)

SUBJECT INDECR	AGE	RELIGION	FORM (CLASS)	PANILY SIZE	BIRTH ORDER	FATHER'S EDUCATION	FATHER'S OCCUPATION	MOTHER'S EDUCATION	MOTHER'S OCCUPATION	EDUCATIONAL ASPIRATION	OCCUPATIONAL ASPIRATION
124	17	Protestant	1	8	2	8	0	0	0	LCM	LOW
125	16	Catholic	1	7	3	8	12	8	8	HIJH	HICH
126	16	Catholic	4	6	2	8	0	0	0	HIGH	HICH
127	31	Protestant	4	6	1	8	0	8	8	HIGH	LOW
128	18	Catholic	4	4	1	8	8	0	0	HIGH	LOW
129	17	Protestant	4	6	1	8	0	8	8	HIGH	LOH
130	20	Protestant	4	7	1	8	0	8	8	HICH	LOW

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N.B.

The following are the computations for the point biserial correlations and the t - tests given in the text.

Formula

$$rpb = (M2 - M1) \sqrt{p_1 p_2}$$

$$S_x$$

$$S_x = \sqrt{\sum x^2 - (\sum x)^2}$$

$$n-1$$

rpb - is the product correlation between the

High and the Low Educational or Occupational

Aspirations categories scored as either 0 or 1

- M₁ is the mean of the "low" scores
- N2 is the mean of the "high" scores
- p_1 is the proportion of cases with "high" aspirations.
- P2 is the proportion of cases with "low" aspirations.

 S_x - is the standard deviation of all the scores

The Boys' Sample

a)

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Computation of the point biserial correlation between the boys' age and their educational aspirations. The respondents' ages and the corresponding educational and occupational aspiration scores appear in appendix IX (p 111 - 114)

d.

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$$P_{1} = \frac{65}{130} = 0.5$$

$$P_{2} = \frac{65}{130} = 0.5$$

$$P_{1}P_{2} = 0.5$$

$$M_{2} = \frac{1095}{65} = 16.846$$

$$M_{1} = \frac{1088}{65} = 16.738$$

$$M_{2} - M_{1} = 0.108$$

$$(M_{2} - M_{1}) \sqrt{P_{1}P_{2}} = 0.108 \ge 0.5$$

$$= 0.0540$$

$$Z = 2183$$

$$Z = 2183$$

$$Z = 2.879$$

$$rpb = \frac{0.0540}{2.879}$$

$$rpb = \frac{0.0540}{2.879}$$

Computation of the point biserial correlation between the boys' age and their occupational aspirations.

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$$p_{1} = \frac{62}{130} = 0.48$$

$$p_{2} = \frac{68}{130} = 0.52$$

$$p_{1}p_{2} = 0.499$$

$$M_{2} = \frac{1052}{62} = 16.968$$

$$M_{1} = \frac{1130}{68} = 16.618$$

$$H_{2}-M_{1} = 0.35$$

$$(M_{2}-M_{1})\sqrt{p_{p}p_{2}}= 0.35 \times 0.499$$

$$Z = 2183$$

$$Z = 37067$$

$$S_{x} = 2.879$$

$$rpb = 0.17465$$

$$2.879$$

$$rpb = 0.06066$$

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Computation of the point biserial correlation between the boys' family size and their educational aspirations.

(1)

$$P_{1} = \frac{65}{130} = 0.5$$

$$P_{2} = \frac{65}{130} = 0.5$$

$$P_{2} = \frac{65}{130} = 0.5$$

$$M_{2} = \frac{450}{65} = 6.923$$

$$65$$

$$M_{1} = \frac{425}{65} = 6.538$$

$$M_{2} - M_{1} = 0.385$$

$$(M_{2} - M_{1})\sqrt{P_{1}P_{2}} = 0.385 \times 0.5$$

$$= 0.1925$$

$$\sum x^{2} = 6497$$

$$S_{x} = 2.17023$$

$$rpb = 0.0887$$

c)

Computation of the point biserial correlation between the boys' family size and their occupational aspirations.

P1 = 62 = 0.48 130 $P2 = \frac{68}{130} = 0.52$ $\sqrt{\frac{p_1 p_2}{p_2}} = 0.499$ $\frac{M_2}{p_2} = 415 = 6.694$ 62 = <u>460</u> = 6.765 68 MI M₂-N₁ = - 0.71 $(M_2 - M_1) \sqrt{p_1 p_2} = -0.71 \times 0.499$ **- 0.**03543 ZI = 875 ∑x² ■ 6497 Sx = 2.17023 = - 0.03543 rpb 2.17023 rpb

d)

4

e) Computation of the point biserial correlation between the boys' fathers' cducation and their educational aspirations.

pl	<u>■ 65</u> 130	≖ 0 _° 5
^p 2	= <u>65</u> 130	₽ 0.5
p ₁ ^p 2	⊨ 0.5	
N2	• <u>394</u> 65	⊳ 6.062
Ml	= <u>225</u> 65	= 3.462
м – м	2. 6	
$(M_2 - M_1) \left \frac{p_1 p_2}{p_2} \right $	= 2.6 x 0.5	
	= 130	
Σx	≖ 619	
Zx ²	n 6083	
Sx	= 4.9302	
rpb	= <u>1.30</u> 4.9302	
rpb	= 0.26 348	

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Computation of the point biserial correlation between the boys' fathers' education and their occupational aspirations.

q	1	RI	62 130	65	0.48
p	1		<u>68</u> 130	gas -	0.52
P	1 ^p 2	-	0.499		
M	2		<u>379</u> 62	23	6.113
M	1	5 -	<u>240</u> 68	5	3.529
M	2 ^{- M} 1	8 22	2.584		
$(M_2 - M_1)$) $\sqrt{\mathbf{p_1}\mathbf{p_2}}$	-	2.584 x 0.4	199)
		8	1.289416		
Z	x	8	619		
Z	x ²	8	6083		
	Sx		4.9302		
:	rpb	82	1.289416		
			4.9302		
r	ďq	e= (0.26153		

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f)

g)

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Computation of the point biserial correlation between the boys' fathers' occupation and their educational aspirations.

p_1		65	53	0,,5
		130		
P2	85	<u>65</u>	64	0.5
x p1p2	80	0.5		<i>.</i>
M ₂	æ	408	=	6.277
		65		
Ml		<u>257</u> 65		3•954
M2 - M1	F	2.323		
$(M_2 - M_1) \sqrt{p_1 p_2}$	2=	2.323 x 0.	5	
	193	1.1615		0
Σx		665		
Σx ²	4 2	6913		
SE	8 13	5.217		
rpb	82	<u>1.1615</u> 5.217		
rpb	E	0.2226		

- 130 -

h)

P1 =
$$\frac{62}{130}$$
 = 0.48
130
P₁ = $\frac{68}{130}$ = 0.52
130
 $\sqrt{P_1P_2}$ = 0.499
M₂ = 457 = 7.371
M₁ = $\frac{208}{68}$ = 3.059
M₂ - M₁ = 4.312
(H₂ - M₁) $\sqrt{P_1P_2}$ = 4.312 x 0.499
= 2.15174
 $\sum x$ = 665
 $\sum x^2$ = 6913
Sx = 5.217
rpb = $\frac{2.15174}{5.217}$

<u>#</u>S

rpb = 0.41244

- 131

Computation of the point biserial correlation between the boys' mothers' education and boys' educational aspirations.

pl	65	<u>65</u> 130	≖ 0 ₀ 5
^р 1		<u>65</u> 130	w 0.e5
v ^p 1 ^p 2	2	0.5	
M2	F	<u>169</u> 65	2.60
M ₂ - M ₁	12	2.631	
$(M_2 - M_1) \sqrt{p_1 p_2}$		2.631 x 0.5	
	F	1.3155	
Zx	12	509	
Σx^2	6	4753	
Sr	-	4.626	
rpb	æ	<u>1.3155</u> 4.626	
rpb	-	0.28437	

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Computation of the point biserial correlation between the boys' mothers' education and their occupational aspirations.

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Pl	15	62	807	0.48
b 5	= 1	<u>68</u> 30	5	0.52
Vp1p2	=	0.499		
171	E	<u>233</u> 68	5	3.758
M2 - 1	⁶⁴ 1≕	0.301		
$(M_2 - M_1) p_1$	^p 2 ⁼	0.301 x 0	•499	
	U EXE	-0.150199		
Zr	∞ 5	09		
Zx2	= 4	753		
s _x	= 4	•626		
rpb	E	0 .150199 4.626		
rpb	-	0.03246		

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	P <u>1</u>	ß	65 130	= 0.5
	^p 2	80	<u>65</u> 130	₽ 0 ₆ 5
	p ₁ p ₂	607	0.5	
	M2	***	<u>352</u> 65	₩ 5•415
	Ml	6 13	140	= 2.154
			65	
	M ₂ -	Ml =	3.261	
(M2 -	$-M_1)\sqrt{P_1}$	^p 2 ⁼	3.261 x	0.5
			1.6305	
	Σx		492	
	<u>7</u> x ²	6 2	4464	
	Sx		4.491	
	rpb	E	<u>1.6305</u> 4.491	
	ďan		0.36305	

k)

) Computation of the point biserial correlation between the boys' mothers' occupation and their occupational aspirations.

> **⊯** 62 **≈** 0.48 p_1 130 <u>∞ 68</u> ■ 0.52 p2 130 0.499 P1P2 = **3.419** ^M2 212 62 280 = 4.118 Ml 22 68

$$M_{2} - M_{1} = 0.699$$

$$(M_{2} - M_{1})\sqrt{P_{1}P_{2}} = -0.699 \times 0.499$$

$$= -0.348801$$

$$\sum x = 492$$

$$\sum x^{2} = 4464$$

$$S_{x} = 4.491$$

$$rpb = -0.348801$$

$$4.491$$

$$rpb = -0.0776$$

1)

The Girls' Sample

Computation of the point biscrial correlation between the girls' age and their educational aspirations. The respondents' age and the corresponding educational and occupational aspiration scores appear in appendix IX (p 11 - 114)

	p 1	25	40	= 0. 57
			70	
	^p 2		30	= 0.43
		-	70	
	p1p2	=	0.495	
	M2	35	663	= 16.575
			40	
	Ml		488	≈ 16.26 7
			30	
	M ₂ - M ₁	12	0.308	
(M ₂ -	M ₁) p ₁ p	83	0.308 x	0.495
			0-15246	
- 1			1353	
4	<u>Z</u> x		1121	
	Zx ²	B	19147	
12	Sz		1.78	
	rpb	1 72	0.15246	
			1.78	
	rpb	-	0.086	

a)

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Computation of the point biserial correlation between the girls' age and their occupational aspirations.

$$P_{1} = \frac{40}{70} = 0.57$$

$$P_{2} = \frac{30}{70} = 0.43$$

$$P_{1}P_{2} = 0.495$$

$$M_{2} = \frac{657}{40} = 16.425$$

$$M_{1} = \frac{494}{40} = 16.467$$

$$30$$

$$M_{2} - M_{1} = 0.042$$

$$(M_{2} - M_{1})\sqrt{p_{1}p_{2}} = 0.042 \times 0.495$$

$$= 0.02079$$

$$\sum x = 1151$$

$$\sum x^{2} = 19147$$

$$S_{x} = 1.78$$

$$rpb = \frac{0.02079}{1.78}$$

$$rpb = -0.012$$

b)

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Computation of the point biserial correlation between the girls' family size and their educational aspirations.

$$P_{1} = \frac{40}{70} = 0.57$$

$$P_{2} = \frac{30}{70} = 0.43$$

$$\sqrt{P_{1}P_{2}} = 0.495$$

$$M_{2} = \frac{270}{40} = 6.75$$

$$M_{1} = \frac{179}{30} = 5.97$$

$$M_{2} - M_{1} = 0.78$$

$$(M_{2} - M_{1})\sqrt{P_{1}P_{2}} = 0.78 \times 0.495$$

$$= 0.3861$$

$$\sum x = 449$$

$$\sum x^{2} = 3197$$

$$S_{x} = 2.1.279$$

$$rpb = \frac{0.3861}{2.1279}$$

$$rpb = 0.18144$$

c)

Computation of the point biserial correlation between the girls' family size and their occupational aspirations.

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$$p_{1} = \frac{40}{70} = 0.57$$

$$p_{2} = \frac{30}{70} = 0.43$$

$$\sqrt{p_{1}p_{2}} = 0.495$$

$$M_{2} = \frac{256}{40} = 6.4$$

$$40$$

$$M_{1} = \frac{193}{30} = 6.43$$

$$M_{2} - M_{1} = -0.03$$

$$(M_{2} - M_{1})\sqrt{p_{1}p_{2}} = -0.03 \times 0.495$$

$$= -0.01485$$

$$\sum x = 449$$

$$\sum x^{2} = 3197$$

$$S_{x} = 2.1279$$

$$rpb = -0.01485$$

$$2.1279$$

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d)

Computation of the point biserial.correlation between the girls' fathers' education and their educational aspirations.

Pl	63	<u>40</u> 70	8	0.57
P2	R.	<u>30</u> 70	80	0.43
p 1p2	£2	0.495		
^M 2	=	<u>288</u> 40	8	7•2
Ml	ut:	<u>88</u> 30	*	2.93
^M 2 - M	1**	4.27		
$(M_2 - M_1)\sqrt{p_1 p_1}$	2 =	4.27 x 0.2	195	
	-	2.11365		×.
Σx	82	376		
Ex2	82	4052		
Sx	2 3	5-388		
rpb	821	2.11 <u>365</u> 5.388		
rpb	g 21	0.39228		

e)

f)

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Computation of the point biserial correlation between the girls' fathers' education and their occupational aspirations.

$$P_{1} = \frac{40}{70} = 0.57$$

$$P_{2} = \frac{30}{70} = 0.43$$

$$\sqrt{P_{1}P_{2}} = 0.495$$

$$M_{2} = \frac{260}{40} = 6.5$$

$$M_{1} = \frac{116}{30} = 3.87$$

$$M_{2} - M_{1} = 2.63$$

$$(M_{2} - M_{1})\sqrt{P_{1}P_{2}} = 2.63 \times 0.495$$

$$= 1.30185$$

$$\sum x = 376$$

$$\sum x^{2} = 4052$$

$$S_{x} = 5.388$$

$$rpb = 1.30185$$

$$rpb = 0.24162$$

- 141 -

Computation of the point biserial correlation between the girls' fathers' occupation and their educational aspirations.

$$P_{1} = \frac{40}{70} = 0.57$$

$$P_{2} = \frac{30}{70} = 0.43$$

$$P_{1}P_{2} = 0.495$$

$$M_{2} = \frac{264}{40} = 6.6$$

$$M_{1} = \frac{132}{30} = 4.4$$

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$$M_{2} - M_{1} = 2.2$$

$$(M_{2} - M_{1})\sqrt{p_{1}p_{2}} = 2.2 \times 0.495$$

$$= 1.089$$

$$Zx = 396$$

$$Zx^{2} = 3984$$

$$S_{x} = 4.99$$

$$rpb = \frac{1.089}{4.99}$$

$$rpb = 0.2182$$

g)

h)

Computation of the point biserial correlation between the girls' fathers' occupation and their occupational aspirations.

$$P_{1} = \frac{40}{70} = 0.57$$

$$P_{2} = \frac{30}{70} = 0.43$$

$$\sqrt{P_{1}P_{2}} = 0.495$$

$$M_{2} = \frac{280}{40} = 7.00$$

$$M_{1} = \frac{116}{30} = 3.87$$

$$M_{2} - M_{1} = 3.13$$

$$(M_{2} - M_{1})\sqrt{P_{1}P_{2}} = 3.13 \times 0.495$$

$$= 1.54935$$

$$\sum x = 396$$

$$\sum x^{2} = 3984$$

$$S_{x} = 4.99$$

$$rpb = \frac{1.54935}{4.99}$$

$$rpb = \frac{1.54935}{4.99}$$

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Computation of the point biserial correlation between the girls mothers' education and their educational aspirations.

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p_1		<u>40</u> 70	1 72	0.57
P2	33	<u>30</u> 70	2 12	0.43
$\sqrt{p_1 p_2}$	5 2	0.495		
M2	52	<u>200</u> 40	10	5.00
M	65	<u>52</u> 30		1.73
M2 - M1	æ	3.27		
$(M_2 - M_1)\sqrt{p_1p_2}$	2=	3.27 x 0.49	95	
	-	1.61865		
Σx	101	252		
$\sum x^2$	F	2352		
Sx.	82	4.54		
rpb	18 <u>-</u>	1.6186 <u>5</u> 4.54		
rpb	= (0.3565		

i)

Computation of the point biserial correlation between the girls' mothers' education and their educational aspirations.

$$p_{1} = \frac{40}{70} = 0.57$$

$$p_{2} = \frac{30}{70} = 0.43$$

$$\sqrt{p_{1}p_{2}} = 0.495$$

$$M_{2} = \frac{120}{40} = 3.00$$

$$M_{1} = \frac{132}{40} = 4.4$$

$$M_{2} - M_{1} = -1.4$$

$$(M_{2} - M_{1})\sqrt{p_{1}p_{2}} = -1.4 \times 0.495$$

$$= -0.693$$

$$\sum x = 252$$

$$\sum x^{2} = 2352$$

$$S_{x} = 4.54$$

$$rpb = -0.693$$

$$4.54$$

2

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j)

k) Computation of the point biserial correlation between the girls' mothers' occupation and their educational aspirations.

Pl	82	<u>40</u> 70	t	= 0.57	
^p 2	<u>917</u>	30	6	0.43	
P1P2	23	0.495			
¹⁵ 2	=	<u>208</u> 40	5	5.2	
Ml	1 12	<u>52</u> 30	122	1.73	
M ₂ - M ₁	82	3.47			
$(M_2 - M_1)\sqrt{p_1p_2}$	2=	3.47 x 0.49	95		
		1.71765			
ZI	#2°	260			
Σ^{x^2}	8 2	2512			
Sx	m	4.699			
rpb	62	1.71765 4.699			
ryb	63:	0.3655			

Computation of the point biserial correlation between the girls' mothers' occupation and their occupational aspirations.

$$p_{1} = \frac{40}{70} = 0.57$$

$$p_{2} = \frac{30}{70} = 0.43$$

$$\sqrt{p_{1}p_{2}} = 0.495$$

$$M_{2} = \frac{128}{40} = 3.2$$

$$M_{1} = \frac{132}{30} = 4.4$$

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$$M_{2} - M_{1} = -1.2$$

$$(M_{2} - M_{1}) \sqrt{P_{1}P_{2}} = -1.2 \times 0.495$$

$$= -0.594$$

$$\sum x = 260$$

$$\sum x^{2} = 2512$$

$$S_{x} = 4.699$$

$$rpb = -0.594$$

$$4.699$$

$$rpb = -0.1264$$

1)

The Combined Sample

L)

Computation of the point biserial correlation between the boys' and girls' ages, and their educational aspirations.

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pl	63	105 200	801	0.525
p ₂	P	<u>95</u> 200	201) 201	0.475
p1p2	-	0.499		×
^M 2	=	<u>1758</u> 105	85	16.743
Ml	E	<u>1576</u> 95	E.	16.589
M2 - M1	52	0.154		
$(M_2 - M_1)/p_1p_2$	35	0.154 x 0.	49	9
	F	0.076846		
ZI	1	3334		
$Z x^2$	87	56214		
Sx	<u>tin</u>	1.788		
rpb		0.076846 1.788		
rpb	- 252	0.0429		

Ъ)

4

Computation of the point biserial correlation

between the boys' and the girls' ages, and their occupational aspirations.

- $P_{1} = \frac{102}{200} = 0.51$ $P_{2} = \frac{98}{200} = 0.49$ $\sqrt{P_{1}P_{2}} = 0.499$ $M_{2} = \frac{1709}{102} = 16.755$ $M_{1} = \frac{1624}{98} = 16.571$
- $M_{2} = M_{1} = 0.184$ $(M_{2} = M_{1}) \sqrt{P_{1}P_{2}} = 0.184 \times 0.499$ = 0.091816 $Z \times = 3334$ $Z \times^{2} = 56214$ $S_{x} =$ rpb = 0.091816 1.788 rpb = 0.0514

Computation of the point biserial correlation between the boys' and the girls' family size, and their educational aspirations.

> 105 = 0.525 p_1 85 200 . 95 = 0.475 P_2 24 200 0.499 P1^P2 -**■ 6**.857 ^M2 720 = 105 Ml 604 **■ 6.358** 52 95

$$M_{2} - M_{1} = 0.499$$

$$(M_{2} - M_{1}) \sqrt{P_{1}P_{2}} = 0.499 \times 0.499$$

$$= 0.249001$$

$$Z = 1324$$

$$Z = 9694$$

$$S_{x} = 5.221$$

$$rpb = 0.249001$$

$$5.221$$

$$rpb = 0.04769$$

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c)

Computation of the point biserial correlation between the boys" and the girls' family size, and their occupational aspirations.

$$p_{1} = \frac{102}{200} = 0.51$$

$$p_{2} = \frac{98}{200} = 0.49$$

$$p_{3}p_{2} = 0.499$$

$$M_{2} = \frac{671}{102} = 6.578$$

$$M_{1} = \frac{653}{98} = 6.663$$

$$M_{2} - M_{1} = -0.085$$

$$(M_{2} - M_{1}) \sqrt{P_{1}P_{2}} - 0.085 \times 0.499$$

$$= -0.042415$$

$$\sum x = 1324$$

$$\sum x^{2} = 9694$$

$$S_{x} = 5.221$$

$$rpb = -0.008124$$

d)

Computation of the point biserial correlation between the boys' and the girls' fathers' education and their educational aspirations.

$$P_{1} = \frac{105}{200} = 0.525$$

$$P_{2} = \frac{95}{200} = 0.475$$

$$M_{2} = \frac{682}{105} = 6.495$$

$$M_{1} = \frac{313}{95} = 3.295$$

$$M_{2} - M_{1} = 3.2$$

$$(M_{2} - M_{1})\sqrt{P_{1}P_{2}} = 3.2 \times 0.499$$

$$= 1.5968$$

$$Z_{x} = 995$$

$$Z_{x} = 995$$

$$Z_{x} = 5.104$$

$$rpb = \frac{1.5968}{5.104}$$

$$rpb = 0.31285$$

24

e)

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Computation of the point biserial correlation between the boys' and the girls' fathers' education and their occupational aspirations.

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$$P_{1} = \frac{102}{200} = 0.51$$

$$P_{2} = \frac{93}{200} = 0.499$$

$$M_{2} = \frac{639}{102} = 6.265$$

$$102$$

$$M_{1} = \frac{356}{98} = 3.633$$

$$M_{2} - M_{1} = 2.632$$

$$(M_{2} - M_{1}) \sqrt{P_{1}P_{2}} = 2.632 \times 0.499$$

$$= 1.313368$$

$$\sum x = 995$$

$$\sum x^{2} = 10135$$

$$S_{x} = 5.104$$

$$rpb = \frac{1.313368}{5.104}$$

$$rpb = 0.2573$$

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- 152 -

f)

) Computation of the point discrial correlation between the boys' and girls' fathers' occupation and their educational aspirations.

P ₁	13	<u>105</u> 200	122	0.525
°2	E	<u>95</u> 200	С	0.475
(p1p5		0.499		
MJ.		<u>389</u> 95	1	4.095
M2	82	<u>672</u> 105		6•4
^M 2 - ^M 1	=	2.305		
$(M_2 - M_1) \sqrt{P_1 P_1}$	2=	2.305 x 0.	499	
	63	1.150195		÷ .
Zx	82	1061		
Zx ²	1 22	10897		
Sx		5.145		
rþþ	85	<u>1.150195</u> 5.145		
rob	53	0.22355		

g)

Computation of the point biserial correlation between the boys' and the girls' fathers' occupation and their occupational aspirations.

pl		<u>102</u> 200	101	0.51
P2	5	<u>98</u> 200	8	0.49
Jp1p2	E	0.499		
^M 2		<u>737</u> 102	611	7.225
Mı	e	<u>324</u> 98	=	3.306
M ₂ - M	1 🖬	3.919		
$(M_2 - M_1) \sqrt{p_1}$	p ₂ = 3	•919 x 0.4	199	
	*	1.955581		
Zx	82 I	1061		
$\sum x^2$	FS]	10897		
Sx	= 5	.145		
rpb	= <u>1</u> 5	<u>•955581</u> •145		
rpb	₩ 0	.3800934		

h)

Computation of the point biserial correlation i) between the boys' and the girls' mothers' education and their educational aspirations.

$$p_{1} = \frac{105}{200} = 0.525$$

$$p_{2} = \frac{95}{200} = 0.475$$

$$\sqrt{p_{1}p_{2}} = 0.499$$

$$M_{2} = \frac{540}{105} = 5.143$$

$$M_{1} = \frac{221}{95} = 2.326$$

$$M_{2} - M_{1} = 2.817$$

$$(M_{2} - M_{1}) \sqrt{P_{1}P_{2}} = 2.817 \times 0.499$$

$$= 1.405683$$

$$Z = 761$$

$$Z = 7105$$

$$S_{x} = 4.599$$

$$rpb = \frac{1.405683}{4.599}$$

$$rpb = 0.305649$$

f

Computation of the point biserial correlation between the boys' and the girls' mothers' education and their occupational aspirations.

$$P_{1} = \frac{102}{200} = 0.51$$

$$P_{2} = \frac{98}{200} = 0.49$$

$$\frac{P_{1}P_{2}}{M_{2}} = 0.499$$

$$M_{2} = \frac{353}{102} = 3.461$$

$$M_{1} = 408 = 4.163$$

$$M_{2} - M_{1} = -0.702$$

$$(M_{2} - M_{1})\sqrt{p_{1}p_{2}} = -0.702 \times 0.499$$

$$= -0.350298$$

$$Z \times = 761$$

$$Z \times^{2} = 7105$$

$$S_{x} = 4.599$$

$$rpb = -0.350298$$

$$4.599$$

$$rpb = -0.0761682$$

j)

Computation of the point biserial correlation between the boys' and the girls' mothers' occupation and their educational espirations.

pl	63	105	E 1	0.525
		200		
^p 2	875	_95	1231	0.475
		200		
(p1p5	-	0.499		
^M 2		560	53	5.333
		105		
Nı	(2)	<u>192</u> 95		2.021
M ₂ - N ₁		3-312		
$(M_2 - M_1) \sqrt{p_1 p_2}$	8	3.312 x 0	•499	9
	æ	1.652688		
Zx	8	752		
Zx2	25	6972		
Sx	8 7	4.566		
rpb	£2.	1.652688		
		4.566		
rpb		0.3619553		

k)

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t)

4

Computation of the point biserial correlation between the boys' and the girls' mothers' occupation and their occupational aspirations.

$$p_{1} = \frac{102}{200} = 0.51$$

$$p_{2} = \frac{98}{200} = 0.49$$

$$\sqrt{p_{1}p_{2}} = 0.499$$

$$M_{2} = \frac{340}{102} = 3.333$$

$$M_{1} = \frac{412}{98} = 4.204$$

$$M_{2} - M_{1} = -0.871$$

$$(M_{2} - M_{1})\sqrt{P_{1}P_{2}} = -0.871 \times 0.499$$

$$= -0.434629$$

$$\sum x = 752$$

$$\sum x^{2} = 6976$$

$$S_{x} = 4.566$$

$$rpb = -0.434629$$

$$4.566$$

$$rpb = -0.434629$$

$$4.566$$

N.B.

The t - test was used to find out whether the computed point biserial coefficients were significantly different from zero.

It was assumed that the two samples were independent and that their means were from a randomly selected sample. Hence the means were normally distributed. The t - statistic was found suitable since the estimate of the observations were being used.

Formila:

$$t = (\bar{x}_1 - \bar{x}_2) - (l_1 - l_2)$$

SE $\bar{x}_1 - \bar{x}_2$

The pooled value of the variance was used in the computation on the t - test.

Hence,

$$s^{2} = \left[\sum_{n=1}^{2} \frac{2}{n_{1}} + \left[\sum_{n=1}^{2} \frac{2}{n_{2}} + \left[\sum_{n=1}^{2} \frac{2}{n_{2}}$$

The significance level was at .05 level.

The Boys' Sample

Computation of a t - test to find out whether there was a statistically significant relationship between the fathers' education and the educational aspirations of boys'.

$$\sum x_1 = 394 \qquad \sum x_2 = 225$$

$$\sum x_1^2 = 3746 \qquad \sum x_2^2 = 2337$$

$$n_1 = 65 \qquad n_2 = 65$$

$$s_1^2 = (3746-2388.25) \qquad s_2^2 = (2337 - 778.85)$$

$$64 \qquad 64$$

$$s_1^2 = 1357.75 \qquad s_2^2 = 1558.15$$

$$64 \qquad 64$$

$$s_1^2 = 21.21 \qquad s_2^2 = 24.35$$

$$s^2 = (65 \times 21.21) + (65 \times 24.35)$$

$$128$$

$$s^2 = 1378.65 + 1582.75$$

$$128$$

$$s^2 = 23.14$$

$$128$$

$$s^2 = 23.14$$

a)

- 161 -

 $t = \frac{2.6}{0.8438}$ t = 3.0812988Observed t = 3.08Critical t = 1.66, df = 128, at 0.05 level
This indicated that a significant relationship exists
between the boys' educational aspirations and their fathers'
education.

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Computation of a t - test to find out whether there was a statistically significant relationship between the fathers' education, and the occupational aspirations of boys.

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$$\sum_{x_1} = 379 \qquad \sum_{x_2} = 240$$

$$\sum_{x_1}^2 = 3978 \qquad \sum_{x_2}^2 = 2112$$

$$n_1 = 62 \qquad n_2 = 68$$

$$s_1^2 = (3978 - 2316.79) \qquad s_2^2 = (2112 - 847.06)$$

$$s_1^2 = (661.21) \qquad s_2^2 = 1264.94$$

$$61 \qquad 67$$

$$s_1^2 = 27.23 \qquad s_2^2 = 18.88$$

$$s^2 = (62 \times 27.23) + (68 \times 18.88)$$

$$128$$

$$s^2 = (688.26 + 1283.84)$$

$$128$$

$$s^2 = 2972.1$$

$$128$$

$$s^2 = 23.22$$
SE
$$\sum_{x_1}^2 \sum_{x_2}^2 = \sqrt{\frac{23.22}{62} + \frac{23.22}{68}}$$

$$= \sqrt{0.7160}$$

$$= 0.846167$$

$$t \qquad = 6.113 - 3.529$$

$$0.846167$$

ъ)

... 163 e = 2,584 0.846167 = 3.0537707 七 Observed t = 3.05 Critical t ~ 1.66, df = 128, at .05 level This shows that a significant relationship exists between the fathers' education and the occupational aspirations of the boys. 193

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Computation of a t - test to find out whether there was a statistically significant relationship between the fathers' occupation and the educational aspirations of boys.

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$$\sum_{1}^{2} = 408 \qquad \sum_{2}^{2} = 257$$

$$\sum_{1}^{2} = 4128 \qquad \sum_{2}^{2} = 2785$$

$$n_{1} = 65 \qquad n_{2} = 65$$

$$s_{1}^{2} = (4128 - 2560.98) \qquad s_{2}^{2} = (2785 - 1016.14)$$

$$64 \qquad 64$$

$$s_{1}^{2} = \frac{1567.02}{64} \qquad s_{2}^{2} = \frac{1760.88}{64}$$

$$s_{1}^{2} = 24.48 \qquad s_{2}^{2} = 27.64$$

$$s_{1}^{2} = (65 \times 24.48) + (65 \times 27.64)$$

$$128$$

$$s^{2} = \frac{3388}{128}$$

$$s^{2} = 26.47$$

$$sE = \frac{1}{x_{1}} - \frac{1}{x_{2}} = \sqrt{\frac{26.47}{65} + \frac{26.47}{65}}$$

$$= \sqrt{0.8144}$$

$$= 0.902441$$

$$= \frac{6.277 - 3.954}{0.902441}$$

$$= \frac{2.323}{0.902441}$$

t 2.574129

0)

- 165 -

Observed t = 2.57

Critical t = 1.66, df = 128, at .05 level.

This indicates that a significant relationship exists between the educational aspirations of boys and their fathers' occupation.

a)

Computation of a t - test to find out whether there was a statistically significant relationship between the fathers' occupation and the occupational aspirations of boys'.

Z=2 = 208 2=1 = 457 $\sum_{n=2}^{\infty} = 2192$ $\sum_{x_1^2} = 4865$ n2 = 68 nj = 62 $s_{1}^{2} = \underbrace{(4865 - 3368.53)}_{61} \qquad s_{2}^{2} = \underbrace{(2192 - 636.24)}_{67} \\ s_{1}^{2} = \underbrace{1496.47}_{61} \qquad s_{2}^{2} = \underbrace{1555.76}_{61} \\ \end{cases}$ $s_1^2 = 1496.47$ $s_2^2 = 23.22$ s₁² = 24.53 $s^2 = (62 \times 24.53) + (68 \times 23.22)$ 128 $s^2 = \frac{1520.86 + 1578.96}{128}$ s² = <u>3099.82</u> 128 $s^2 = 24.22$ $\bar{x}_1 - \bar{x}_2 = \sqrt{\frac{24 \cdot 22}{62} + \frac{24 \cdot 22}{68}}$ 0.864175 t = <u>7.371 - 3.059</u>

0.864175

t = <u>4.312</u> 0.864175 t = 4.98973
Observed t = 4.99
Critical t = 1.66, df = 128, at .05 level.

- 167 -

This indicates that a significant relationship between the fathers' occupation and the occupational aspirations of the boys.

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Computation of a t - test to find out whether there was a statistically significant relationship between the mothers' education and the educational aspirations of boys.

$$\sum x_1 = 340 \qquad \sum x_2 = 169$$

$$\sum x_1^2 = 3058 \qquad \sum x_2^2 = 1697$$

$$n_1 = 65 \qquad n_2 = 65$$

$$s_1^2 = (3058 - 1778 \cdot 46) \qquad s_2^2 = (1697 - 439 \cdot 4)$$

$$s_1^2 = 1279 \cdot 54 \qquad s_2^2 = 1257 \cdot 6$$

$$64 \qquad 64$$

$$s_1^2 = 19 \cdot 99 \qquad s_2^2 = 19 \cdot 65$$

$$s^2 = (65 \times 19 \cdot 99) + (65 \times 19 \cdot 65)$$

$$128$$

$$s^2 = 1299 \cdot 35 + 1277 \cdot 25$$

$$128$$

$$s^2 = 20 \cdot 13$$

$$S^2 = \sqrt{20 \cdot 13} + \frac{20 \cdot 13}{65} = \sqrt{0.6194}$$

$$= 0.787019$$

$$t = \frac{5 \cdot 23 - 2 \cdot 60}{0.787019}$$

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Critical t = 1.66, df = 128, at .05 level.

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This shows that a significant relationship exists between the boys' educational aspirations and their mothers' educations

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Computation of a t - test to find out whether there was a statistically significant relationship between the mothers' occupation and the educational aspirations of the boys.

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$$x_{1} = 352 \qquad x_{2} = 140$$

$$x_{1}^{2} = 3296 \qquad x_{2}^{2} = 1168$$

$$n_{2} = 65 \qquad n_{2} = 65$$

$$s_{1}^{2} = (3296 - 1906 \cdot 22) \qquad s_{2}^{2} = (1168 - 301 \cdot 54)$$

$$64 \qquad 64$$

$$s_{1}^{2} = 1389 \cdot 78 \qquad s_{2}^{2} = 866 \cdot 46$$

$$s_{1}^{2} = 21 \cdot 72 \qquad s_{2}^{2} = 13 \cdot 54$$

$$s^{2} = (65 \times 21 \cdot 72) + (65 \times 13 \cdot 54)$$

$$128$$

$$s^{2} = 1411 \cdot 8 + 880 \cdot 1$$

$$128$$

$$s^{2} = 17 \cdot 91$$

$$sE \cdot x_{1} - x_{2} = \sqrt{\frac{17 \cdot 91}{65} + \frac{17 \cdot 91}{65}}$$

$$= \left(0 \cdot 551 \right)$$

$$= 0 \cdot 742293$$

$$t = \frac{3 \cdot 261}{0 \cdot 742293}$$

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t = 4.3931439

Observed t = 4.39

Critical t = 1.66, df = 128, at .05 level.

This indicates that a significant relationship exists between the mothers' occupation and the educational aspirations of the boys.

The Girls' Sample

a)

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Computation of a t - test to find out whether there was a statistically significant relationship botween the fathers' education and the educational aspirations of girls.

 $\sum x_2 = 88$ Zx1 = 288 ∑x2 = 800 $\sum_{x_1}^2 = 3252$ $n_2 = 30$ n₁ ⊨ 40 $s_1^2 = (3252 - 2073.6)$ $s_2^2 = (800 - 258.13)$ 29 39 $s_2^2 = 541.87$ $s_1^2 = 1178.4$ 29 39 $s_2^2 = 18.69$ $s_1^2 = 30.22$ $s^{2} = (40 \times 30.22) \div (30 \times 18.69)$ 68 $s^2 = 1769.5$ 68 s = 26.02 $s_{1}^{s} = \bar{x}_{1}^{s} - \bar{x}_{2}^{s} \sqrt{\frac{26.02}{40} + \frac{26.02}{30}}$ ₩ / 1.5178 1.23199 = 7.2 - 2.93 t 1.232 4.27 t 12 1.232

t = 3.465909Observed t = 3.46

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1.0

-173 -

Critical t = 1.66, df = 68, at .05 level.

4

This indicates that a significant relationship exists between the fathers' education and the educational aspirations of the girls. Computation of a t - test to find out whether there was a statistically significant relationship between the fathers' education and the occupational aspirations of the girls.

ź	xı	52	260		2	-*2	H	116		
Σ	x1	63	2820		Ž	2222	II.	1168		
	nı	2	40			ⁿ 2	=	30		
	s ² 1	= (2820	<u>- 169</u> 39	0)	s ² s ²	8	(1168	<u>-448</u> 29	.53)
	s12	55	<u>1130</u> 39			\$ ² \$2	E	<u>719.4</u> 29	7	
	s_1^2	8	28.97			s12	83	24.81		
	s ₂ ²	- (40 x	28.97) + 68	(30	x 24.8	31)	
	s ²	2 13	<u>1903.</u> 68	1						ιų.
	s ²	10 Z	27.99							
se ī-	IZ2	E	2	7 <u>.99</u> 40	+ 2	.7 <u>.9</u> 30	2			
		60	1.2	7781						
	t	12	6.5	- 30	,87					
			1	.2778	31					
	de .	22	2.0	58208	39					

b)

- 175-

Observed t = 2.06

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Critical t = 1.66, df = 68, at .05 level

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- 2

This indicates that a significant relationship exists between the fathers' education and the occupational aspirations of the girls. Computation of a t - test to find out whether there was a statistically significant relationship between the fathers' occupation and the educational aspirations of the girls.

ZII a	264	2	132
∑x1 =	2592	$\sum_{x_2}^{2} =$	1392
ⁿ 2 [∞]	40	ⁿ 2 =	30
s ₁ ² =	(<u>2592 - 1742.4</u>) <u>39</u>	s²≃	(<u>1392 - 580.8)</u> 29
s ₁ ² ₽	<u>849.6</u> 39	s ₂ ²	<u>811.2</u> 29
s ² ≈	21.78	² ² 2 [∞]	27.97
s ² =	(<u>40 x 21.78</u>)	+ (30	<u>x 27.97)</u>
		68	
s ² =	<u>1710.3</u> 68		+
•			

 $s^{2} = 25.15$

SE $\bar{x}_1 - \bar{x}_2 = \frac{25 \cdot 15}{40} + \frac{25 \cdot 15}{30}$ = $1 \cdot 4671$ = $1 \cdot 211239$ $\frac{1}{1} - \frac{6 \cdot 6}{4 \cdot 4}$ $1 \cdot 211239$ $\frac{1}{1} = \frac{2 \cdot 2}{1 \cdot 211239}$ $\frac{1}{1} = \frac{2 \cdot 2}{1 \cdot 211239}$ $\frac{1}{1} = \frac{1 \cdot 8163219}{1 \cdot 8163219}$

c)

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- 177-

Observed t = 1.816 Critical t = 1.66, df = 68 at .05 level

12

This indicates that a significant relationship exists between the fothers' occupation and the educational aspirations of the girls. d)

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Computation of a t - test to find out whether there was a statistically significant relationship between the fathers' occupation and the occupational aspirations of the girls.

$$\sum_{n} = 280 \qquad \sum_{n} = 116$$

$$\sum_{n}^{2} = 2816 \qquad \sum_{n}^{2} = 1168$$

$$n_{1} = 40 \qquad n_{2} = 30$$

$$s_{1}^{2} = (2816 - 1960) \qquad s_{2}^{2} = (1168 - 448 \cdot 53)$$

$$39 \qquad 29$$

$$s_{1}^{2} = \frac{856}{39} \qquad s_{2}^{2} = \frac{719 \cdot 47}{29}$$

$$s_{1}^{2} = 21 \cdot 95 \qquad s_{2}^{2} = 24 \cdot 81$$

$$s^{2} = (40 \times 21 \cdot 95) + (30 \times 24 \cdot 81)$$

$$68$$

$$s^2 = \frac{1622.3}{68}$$
$$s^2 = 23.86$$

SE
$$\bar{x}_{1} - \bar{x}_{2} = \sqrt{\frac{23.86}{40} + \frac{23.86}{30}}$$

= $\sqrt{1.3918}$
= 1.179745
t = $\frac{7.00 - 7.87}{1.179745}$
t = 2.6531157

Observed t = 2.65

Critical t + = 1.66, df = 68, at .05 level.

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This indicates that significant relationship exists between the fathers' occupation and the occupational aspirations of the girls.

- 26

Computation of a t - test to find out whether there was a statistically significant relationship between the mothers: education and the educational aspirations of the girls.

$$Z = \frac{1}{2} = \frac{200}{2} \qquad \sum_{x_2}^{2} = 52$$

$$Z = \frac{2}{1} = \frac{1888}{2} \qquad \sum_{x_2}^{2} = 464$$

$$n_1 = 40 \qquad n_2 = 30$$

$$s_1^2 = (1888 - 1000) \qquad s_2^2 = (464 - 90 \cdot 13)$$

$$39 \qquad 29$$

$$s_1^2 = \frac{888}{39} \qquad s_2^2 = \frac{373 \cdot 87}{29}$$

$$s_2^2 = 22 \cdot 77 \qquad s_2^2 = 12 \cdot 89$$

$$s_1^2 = (40 \times 22 \cdot 77) + (30 \times 12 \cdot 89)$$

$$68$$

$$s_1^2 = \frac{1297 \cdot 5}{68}$$

$$s_1^2 = \frac{1297 \cdot 5}{68}$$

$$s_1^2 = 19 \cdot 081$$

$$SE = \frac{1}{x_1} = \frac{x_2}{x_2} = \sqrt{\frac{19 \cdot 08}{40} + \frac{19 \cdot 08}{30}}$$

$$t = \frac{5 \cdot 00 - 1 \cdot 73}{1 \cdot 054998}$$

$$t = \frac{3 \cdot 27}{1 \cdot 054998}$$

$$t = \frac{3 \cdot 27}{1 \cdot 054998}$$

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- 181 -

Observed to = 3.09

and a state

Critical t = 1.66, df = 68, at .05 level.

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This indicates that a significant relationship exists between the mothers' education and the educational appirations

of the girls.

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Computation of a t - test to find out whether there was a statistically significant relationship between the mothers' occupation and the educational aspirations of the girls.

$$Z_{x_1} = 208 \qquad Z_{x_2} = 52$$

$$Z_{x_1}^2 = 2048 \qquad Z_{x_2}^2 = 464$$

$$n_1 = 40 \qquad n_2 = 30$$

$$s_1^2 = (2048 - 1031.6) \qquad s_2^2 = (464 - 90.13)$$

$$39 \qquad 29$$

$$s_1^2 = (2048 - 1031.6) \qquad s_2^2 = (464 - 90.13)$$

$$39 \qquad 29$$

$$s_1^2 = 24.78 \qquad s_2^2 = 373.87$$

$$29$$

$$s_1^2 = 24.78 \qquad s_2^2 = 12.89$$

$$s_1^2 = 24.78 \qquad s_2^2 = 12.89$$

$$s_1^2 = (40 \times 24.78) + (30 \times 12.89)$$

$$68$$

$$s_1^2 = 1377.9$$

$$68$$

$$s_1^2 = 20.26$$
SE = 1.377.9
$$68$$

$$s_1^2 = 20.26$$
SE = 1.377.9
$$1.087106$$

$$t = 3.47$$

$$1.087106$$

$$t = 3.47$$

$$1.087106$$

Observed t = 3.19

Critical t = 1.66, df = 68, at .05 level.

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7/

This indicates that a significant relationship exists between mothers' eccupation and the educational aspirations of the girls. The Combined Sample

Computation of a t - test to find out whether there was a statistically significant relationship between the fathers' education and the educational espirations of boys and girls combined.

· 11.4

$$\sum_{n=1}^{\infty} = 682 \qquad \sum_{n=2}^{\infty} = 313$$

$$\sum_{n=1}^{2} = 6998 \qquad \sum_{n=2}^{2} = 3137$$

$$n_{1} = 105 \qquad n_{2} = 95$$

$$s_{1}^{2} = (6998 - 4429 \cdot 75) \qquad s_{2}^{2} = (3137 - 1031 \cdot 25)$$

$$104 \qquad 94$$

$$s_{1}^{2} = 2568 \cdot 25 \qquad s_{22}^{2} = 2105$$

$$104 \qquad 94$$

$$s_{1}^{2} = 24 \cdot 69 \qquad s_{2}^{2} = 22 \cdot 40$$

$$s^{2} = (105 \times 24 \cdot 69) + (95 \times 22 \cdot 40)$$

$$198$$

$$s^{2} = 4720 \cdot 45$$

$$198$$

$$s^{2} = 23 \cdot 84$$

$$s^{E} = 23 \cdot 84$$

$$s^{E} = \frac{23 \cdot 84}{105 \qquad 95}$$

$$= \left(0 \cdot 4779$$

$$= 0 \cdot 691303$$

$$t = \frac{6 \cdot 495 - 3 \cdot 295}{0 \cdot 691303}$$

$$t = 3 \cdot 2$$

$$0 \cdot 691303$$

$$t = 4 \cdot 6289398$$

 ε_{α}

a)

- 185-

Observed t = 4.63

Critical t = 1.66, df = 198, at .05 lovel. This indicates that a significant relationship exists between the fathers' education and the educational aspirations of boys and girls.

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Computation of a t - test to find out whether there was a statistically significant relationship between the fathers' education and the occupational aspirations of boys and girls combined.

$$Z_{1} = 639 \qquad Z_{2} = 356$$

$$Z_{1} = 6798 \qquad Z_{2} = 3280$$

$$n_{1} = 102 \qquad n_{2} = 98$$

$$S_{1}^{2} = (6798 - 4003.15) \qquad S_{2}^{2} = (3280 - 1293.22)$$

$$101 \qquad 97$$

$$S_{1}^{2} = \frac{2794.85}{101} \qquad S_{2}^{2} = \frac{1986.78}{97}$$

$$S_{1}^{2} = 27.67 \qquad S_{2}^{2} = 20.48$$

$$S_{1}^{2} = (102 \pm 27.67) + (98 \pm 20.48)$$

$$198$$

$$s^{2} = \frac{4829 \cdot 38}{198}$$

$$s^{2} = 24 \cdot 39$$

$$s^{2} = 24 \cdot 39$$

$$s^{2} = \sqrt{\frac{24 \cdot 39}{102} + \frac{24 \cdot 39}{98}}$$

$$= \sqrt{\frac{24 \cdot 39}{98} + \frac{24 \cdot 39}{98}$$

$$= \sqrt{\frac{24 \cdot 39}{98} +$$

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Observed t = 3.77

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Critical t = 1.66, df = 198, at .05 level.

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This indicates that a significant relationship e exists between the fathers' education and the occupational aspirations of boys and girls combined. Computation of a t - test to find out whether there was a statistically significant relationship between the fathers' occupation and the educational aspirations of boys and girls combined.

$$\sum_{n_1} = 672 \qquad \sum_{n_2} = 389$$

$$\sum_{n_1}^{n_1} = 105 \qquad \sum_{n_2}^{n_2} = 95$$

$$s_1^2 = (6720 - 4300 \cdot 8) s_2^2 = (4177 - 1592 \cdot 85))$$

$$104 \qquad 94$$

$$s_1^2 = \frac{2419 \cdot 2}{104} \qquad s_2^2 = \frac{2584 \cdot 15}{94}$$

$$s_1^2 = 23 \cdot 26 \qquad s_2^2 = 27 \cdot 49$$

$$s_1^2 = (105 \times 23 \cdot 26) + (95 \times 27 \cdot 49)$$

$$198$$

$$s^{2} = \frac{5043.85}{198}$$

$$s^{2} = 25.47$$

$$s^{2} = \sqrt{\frac{25.47}{105} + \frac{25.47}{95}}$$

$$\sqrt{0.5107}$$

$$0.714632$$

$$t = \frac{6.4 - 4.096}{0.714632}$$

$$t = 2.305$$

$$0.714632$$

$$t = 3.225436$$

Observed & = 3.23

Critical t = 1.66, df = 198, at .05 Level.

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This indicates that a significant relationship

exists between the fathers' occupation and the educational aspirations of boys and girls combined.

Computation of a t - test to find out whether there was a statistically significant relationship between the fathers' occupation and the occupational aspirations of boys and girls combined.

$$\sum_{n_1} = 737 \qquad \sum_{n_2} = 324$$

$$\sum_{n_1}^2 = 7681 \qquad \sum_{n_2}^2 = 3360$$

$$n_1 = 102 \qquad n_2 = 98$$

$$s_1^2 = (7681 - 5325 \cdot 19) \qquad s_2^2 = (3360 - 1071 \cdot 18)$$

$$101 \qquad 97$$

$$s_1^2 = 2355 \cdot 81 \qquad s_2^2 = 2288 \cdot 82$$

$$101 \qquad 97$$

$$s_1^2 = 23 \cdot 325 \qquad s_2^2 = 23 \cdot 596$$

$$s^2 = (102 \times 23 \cdot 325) + (98 \times 23 \cdot 596)$$

$$198$$

$$s^{2} = 4691.56$$

$$198$$

$$s^{2} = 23.69$$

$$s = \frac{23.69}{102} + \frac{23.69}{98}$$

$$= \sqrt{0.474}$$

$$0.668476$$

$$t = \frac{7.225 - 3.306}{0.668476}$$

$$t = 4.919$$

$$0.688476$$

$$t = 5.6922826$$

 $\frac{1}{2}$

d)

4

Observed t = 5.69

Critical t = 1.66, df = 198, at .05 level.

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This indicates that a significant relationship exists

between the fathers' occupation and the occupational aspira-

tions of boys and girls combined.

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Computation of a t - test to find out whether there was a statistically significant relationship between the mothers' education and the educational aspirations of boys and girls combined.

$$\sum x_{1} = 540 \qquad \sum x_{2} = 221 \qquad \\ \sum x_{1}^{2} = 4944 \qquad \sum x_{2}^{2} = 2161 \\ \begin{array}{r} n_{1} = 105 \qquad n_{2} = 95 \\ s_{1}^{2} = (4944 - 2777 \cdot 14) \qquad s_{2}^{2} = (216 - 514 \cdot 12) \\ 104 \qquad \qquad 94 \\ s_{1}^{2} = 2166 \cdot 86 \qquad \qquad s_{2}^{2} = 1646 \cdot 88 \\ 104 \qquad \qquad 94 \\ s_{1}^{2} = 20 \cdot 84 \qquad \qquad s_{2}^{2} = 17 \cdot 52 \\ s_{1}^{2} = (105 \times 20 \cdot 84) + (95 \times 17 \cdot 52) \\ 198 \end{array}$$

$$s^2 = \frac{3852.6}{198}$$

 $s^2 = 19.46$

SE

$$x_1 - x_2 = \sqrt{\frac{19.46}{105} + \frac{19.46}{95}}$$

 $\sqrt{0.3901}$
 $t = 0.624579$
 $t = 5.143 - 2.326$
 0.624579

t = 4.510238

Observed t = 4.51

and the second

54.

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Critical t = 1.66, df = 198, at .05 level.

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This indicates that a significant relationship exists between the mothers' education and the educational aspirations of boys and girls combined. 1)

Corputation of a t - test to find out whether there use a statistically significant relationship between the mothers' occupation and the educational aspla dicas of boys and girls combined.

 $\overline{\sum}_{1}^{x_{1}} = 560$ $\overline{\sum}_{2}^{x_{2}} = 192$ $\overline{\sum}_{1}^{x_{1}^{2}} = 5344$ $\overline{\sum}_{2}^{x_{2}^{2}} = 1632$ $n_2 = 95$ $n_1 = 105$ $s_1^2 = (5344 - 2986.67) s_2^2 = (1632 - 388.04)$ 104 94 $s_1^2 = \frac{2357.33}{104}$ $s_2^2 = \frac{1243.96}{94}$ $s_2^2 = 13.23$ 2 S₁ = 22.67 $s = (105 \times 22.67) + (95 \times 13.23)$ 198 $s^2 = 3637.2$ 198 s² = 18.37 SE $x_1 - x_2 = \sqrt{\frac{18 \cdot 37}{105} + \frac{18 \cdot 37}{95}}$ $\sqrt{0.3683}$ 0.606277\$ = 5.33 - 2.02 0.606877 t = 3.31 0.606877 t = 5.4541529

Observed t = 5.45

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e,

Critical t = 1.66, df = 198, at .05 level.

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This in licetes that a significant relationship exists botseen the refers' occupation and the educational aspirations of boys and girls combined.

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