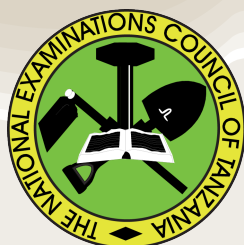


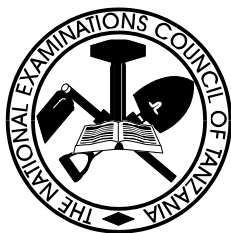
THE NATIONAL EXAMINATIONS COUNCIL OF TANZANIA



**PUPILS' ITEMS RESPONSE ANALYSIS REPORT
FOR STANDARD FOUR NATIONAL ASSESSMENT
(SFNA) 2015**

**07E INFORMATION AND COMMUNICATION
TECHNOLOGY (ICT)**

THE NATIONAL EXAMINATIONS COUNCIL OF TANZANIA



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TABLE OF CONTENT

PREFACE	iv
1.0 INTRODUCTION	1
2.0 ANALYSIS OF STUDENTS' RESPONSES	2
2.1 Section A: Multiple Choice.....	2
2.2 Section B: Matching Items.....	12
2.3 Section C: TRUE or FALSE Items.....	16
2.4 Section D: Short Answer Items.....	21
3.0 ANALYSIS OF EACH OF THE ASSESSED TOPIC	26
4.0 CONCLUSION.....	27
5.0 RECOMMENDATIONS	28
Appendix A	30
Appendix B	31

PREFACE

The report on the analysis of the Pupils' Item Responses to Standard Four National Assessment in Information and Communication Technology (ICT) subject, 2015 has been purposely prepared for giving feedback to pupils, teachers, policy makers, curriculum developers and other stakeholders, on how the pupils responded to this National Assessment. Pupils' responses are one of the indicators of what the pupils were able to learn / not able to learn in the four-years of Primary Education.

In this booklet, the analysis shows that the following factors have caused some pupils not to answer the questions effectively: failure to identify the task of the questions; lack of sufficient knowledge in various topics; failure to transfer knowledge and failure to adhere to assessment instructions. On the other hand, pupils with good performance had adequate knowledge on various topics, thus managing to identify the tasks of the questions. The analysis of each question has been done and the pupils' weaknesses in answering the questions have been identified. Furthermore, topics with good, average and weak performance in this National Assessment have been shown.

It is the expectation of the National Examinations Council of Tanzania that, this feedback will enable various educational stakeholders in general and concerned authorities in particular to take serious measures in addressing the identified shortcomings in order to improve the performance in the Standard Four National Assessment in future.

Finally, the Council would like to express sincere appreciation to the Examinations Officers and all other participants who participated in the preparation of this book. The Council will value comments and suggestions from teachers, pupils and other educational stakeholders aiming at improving the quality of such report.



Dr. Charles E. Msonde
EXECUTIVE SECRETARY

1.0 INTRODUCTION

The Standard Four National Assessment (SFNA) 2015 was conducted in the country on 25th and 26th of November 2015. A total of **174,859** pupils were registered to participate in the assessment for Information and Communication Technology (ICT) subject. Out of the registered pupils, 173,217, which is equal to 99.1 percent passed this assessment.

The structure of the question paper for ICT consisted of four sections namely A, B, C, and D, with a total of 25 questions. Section A consisted of 10 multiple choice questions comprising 20 marks. The pupils were required to select the correct answer from among the four given options and write the letter of the correct answer in the provided box. Section B consisted of five (5) matching items with a total of ten marks. The pupils were supposed to match statements referring to the functions of computer parts in column A, with their corresponding names in column B, by writing the letter of the corresponding name in the brackets provided against each statement. Section C comprised five (5) TRUE and FALSE questions which had a total of 5 marks. The pupils were supposed to write TRUE if the statement was correct and FALSE if the statement was incorrect, as far as ICT is concerned. Section D had a total of five (5) short answer questions. The pupils were supposed to read the question and then write the answer in the space provided after each question. This section had a total of 15 marks, 3 marks for each question.

Analysis was done for each question by looking at how the pupils responded and the reasons behind for a response. This analysis will

be useful to pupils and teachers in order to take necessary measures, especially on topics which the pupils performed poorly. The performance was classified as 'Poor' if the students scored between 0 to 21 percent, 'Average' if the students scored between 22 to 61 percent and 'Good' if the students scored from 62 to 100 percent.

2.0 ANALYSIS OF STUDENTS' RESPONSES

2.1 Section A: Multiple Choice

In this section the pupils were supposed to read the question and then choose the correct answer from the four given alternatives and then write its letter in the box provided.

Question 1: Telephones which are used by the police to communicate to each other are known as

- A Radio call telephones
- B Mobile telephones
- C Landline telephones
- D Internet telephones

This question assessed the knowledge of the pupils about the use of telephone in communication, especially the type of telephones used by the police to communicate. The pupils were expected to be aware that Radio Call telephones are specially used by the police in their day to day duties. This question was performed poorly since only 62,735 pupils, which is equal to 35.9 percent, were able to select "A: Radio Call telephones", which then was the correct answer. Poor selection of the correct answer implies insufficient knowledge about the uses of telephones especially those which are used by special groups such as the police force. Nevertheless, 112,054, which is

equal to 64.1 percent, selected distractors B, C and D, which prove that pupils lack analytical skills especially regarding the categories of the types of telephones and their uses. The analysis of pupils' performance is briefly shown in table 1.

Table 1: Pupils' Performance in Question No. 1

No of pupils	Correct Responses	%	Incorrect Responses	%	Not Responded	%
174,859	62,735	35.9	112,089	64.08	35	0.02

Question 2: The emergency call that people use for dangerous events such as fire is

- A 113
- B 112
- C 110
- D 114



This question assessed the pupils' ability to identify special numbers which can be used for emergency events such as fire. Pupils were given a list of numbers which can be dialled during emergencies so that they can identify which one is used for such events. The performance in this question was average since 76,454 pupils, which is equal to 43.7 percent, were able to select option "B: 112", which was the correct answer. However, a total of 98,390 pupils which is equal to 56.2 percent were not able to identify the correct answer. Further analysis shows that, some appeared to be unsure of the correct answer by selecting option A, C and D which reflect lack of knowledge of the numbers to dial in case of emergencies. Table 2 shows the distribution of pupils' responses.

Table 2: Pupils' Performance in Question No. 2

No. of Pupils	Correct Responses	%	Incorrect Responses	%	Not Responded	%
174,859	76,454	43.7	98,390	56.2	15	0.01

Question 3: Which one of the following materials is used for making drums?

- A Plastic
- B cloth
- C Skin of animal
- D Bamboo stem



This question assessed the knowledge of pupils about the material which is used for making drums. The performance of pupils in this question was good hence indicating adequate knowledge about this part of the topic. As shown in table 3, up to 89.7 of the percent of pupils were able to select the correct answer. It is only 10.2 percent of the pupils who selected incorrect alternatives, A, B and D. These responses proves that these pupils had inadequate knowledge and skill about the materials used in making drums. Because of this lack of knowledge and skills, the pupils resorted to guessing hence the selection of the incorrect options. Table 3 shows the statistical analysis of the pupils' performance.

Table 3: Pupils' Performance in Question No. 3

No of Pupils	Correct Responses	%	Incorrect Responses	%	Not Responded	%
174,859	159,930	89.7	17,920	10.2	9	0.1

Question 4: A piece of paper with printed information which are used for short-term advertisement is known as

- A bill board
- B fliers
- C newspaper
- D articles



In this the question pupils were required to identify the name of a piece of paper with printed information which is used for short-term advertisement. In order to attempt this question correctly, the pupils were required to have knowledge of different methods which can be used to communicate information in writing. The performance of the pupils in this question was average, as 90,081 pupils, which is equal to 51.5 percent, selected option “B: fliers”, which was the correct answer. The responses of these pupils indicate that they have adequate knowledge about written communication. However, half of the pupils who participated in the assessment have inadequate knowledge about methods of communication in writing. This deficiency led to 84,769 pupil which is equal to 48.5 percent, to fail to choose the correct option and hence chose the incorrect options A, C and D. figure 1 shows the distribution of pupils’ responses whereby slightly over 50 percent failed to identify the correct answer and a few others could not answer the question.

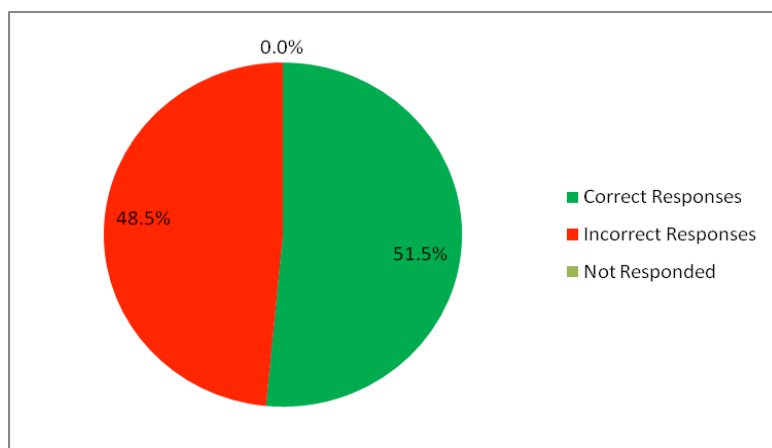


Figure 1: Indicates an average performance in this question, whereby 51.5 percent were able to select the correct answer.

Question 5: Which of the following organizations offers the guidance and counselling services in Tanzania?

- A ANGAZA
- B SHIDEPHA
- C WAMA
- D EMAU



This question was set from the topic on the “Uses of Information and Communication Centres”. The pupils were therefore required to select the name of one of the centres that provide guidance and counselling services from the listed four centres. The performance in this question indicated that 104,595 pupils, which is equal to 59.8 percent, were able to select the correct answer, which is option “A: ANGAZA”. These pupils appeared to have adequate knowledge about centres which provide Guidance and Counselling services that is why they were able to differentiate it from other organizations. However, 70,258 pupils, which is equal to 40.2 percent, failed to identify the correct option due to lack of knowledge as they were unable to differentiate guidance and counselling centres from other

organizations. Table 4 shows the statistics of pupils' and their responses as they attempted this question.

Table 4: Pupils' Performance in Question No. 5

No of Pupils	Correct Response	%	Incorrect Response	%	Not Responded	%
174,859	104,495	59.8	70,258	40.2	6	0.0

Question 6: A building or room where books and other written materials are stored is called a

- A library
- B house of books
- C room for books
- D book store



In this question, pupils were required to choose the correct answer from the alternative A, B, C and D. The answer to this question depended on the knowledge of the pupil about library use, which would enable him/her to understand that different written materials are kept in the library. A total of 174,859 attempted this question whereby 158,372 (90.6%) were able to select the correct answer which was "A: library". Nevertheless, 16,476 pupils (9.4%) chose incorrect alternatives, B, C, and D, which is a sign that they lacked knowledge about library and its use. Only 11 pupils did not attempt this question.

Table 5: Pupils' Performance in Question No. 6

No. of Pupils	Correct Responses	%	Incorrect Responses	%	Not Responded	%
174,859	158,372	90.6	16,483	9.4	4	0.0

Question 7: Which of the following is **not** an information media?

- A Camera
- B Radio
- C Television
- D News Papers



In this question pupils were required to identify an instrument which is not an information media among the given options. This question was set from the topic of “Uses of information equipment”. Pupils’ performance in this question was good whereby 121,993 pupils which is equal to 69.8 percent were able to choose the correct answer which was “A: camera”. The selection of this answer indicated that pupils had adequate knowledge which enabled them to differentiate information media from instruments which can be used in capturing information but are not used in distributing it. However, 52,862 pupils which is equal to 30.2 percent failed to identify the correct answer and hence chose incorrect alternatives B, C and D. The choice of incorrect options is an indication of insufficient knowledge in this topic. Failure of pupils to choose the correct answer can also be attributed to inability of pupils to understand the requirement of the question. Table 6 shows pupils responses and their performance in percentages.

Table .6: Pupils’ Performance in Question No. 7

No. of pupils	Correct Responses	%	Incorrect Responses	%	Not Responded	%
174,859	121,993	69.8	52,862	30.2	4	0.0

Question 8: A company which offers landline services in Tanzania
is known as

- A Vodacom
- B Tigo
- C TTCL
- D Nokia



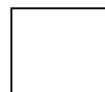
The pupil in this question was required to choose the name of a company that provides landline services in Tanzania. In the order for the pupils to choose the correct answer, the knowledge of companies that provide telecommunication services and the type of services they offer was necessary. The performance of pupils in this question was good. A total of 111,643 pupils, which is equal to 63.8 percent, selected the correct answer, which is option “C: TTCL”. This choice shows that pupils had sufficient knowledge of telecommunication companies and the type of services they offer. In addition, good performance in this question can be attributed to the fact that landline telephones are used in many schools and therefore apart from reading about them in books, at school they are also they are also used. However, 63,299 pupils, which is equal to 36.2 percent, could not manage to choose the correct answer. This could be attributed to insufficient knowledge about telecommunication companies since the list consisted of telecommunication companies. Therefore, the pupils needed to be sure of the answer in order to select the correct alternative. Table 7 shows the performance of pupils showing the pupils who were able to choose the correct answer and those who could not.

Table 7: Pupils' Performance in Question No. 8

No of Pupils	Correct Responses	%	Incorrect Responses	%	Not Responded	%
174,859	111,643	63.8	63,299	36.2	17	0.0

Question 9: A response means a reaction to the received _____

- A information
- B words
- C instructions
- D actions



In this question the pupils were required to choose the word that refers to the meaning of a response. This question required the pupil to have knowledge about different ways of communication and ways to react to different messages. This question was performed well by most pupils, whereby 127,258, which is equal to 72.8 percent, selected option "A: information". The selection of this option showed that the pupils had good understanding of ways of communication and how people respond to different messages. Although many pupils did well in this question, some of them performed poorly. A total of 47,589, which is equal to 27.2 percent, did not choose the correct alternative. This shows that these pupils either did not understand the question, or lacked the knowledge about the topic that would have enabled them to identify the correct answer. Table 8 shows the number and percentage of the pupils who selected the correct answer and those who could not identify the correct option.

Table 8: Pupils' Performance in Question No. 9

No. of pupils	Correct Response	%	Incorrect Response	%	Not Responded	%
174,859	127,258	72.8	47,589	27.2	12	0.0

Question 10: The secret word or number which enables a person to login in a computer is called

- A mouse
- B bold
- C fax
- D password



In question number 10 the pupils were required to choose the name of the secret word or number that allows a person to login in a computer. In answering this question, the pupils were required to have good understanding of the necessary steps in booting up a computer for the purpose of using it. The pupils' performance in this question was average since only 73,753 pupils, which is equal to 45.0, were able to choose the correct answer which is option "D: Password". On the other hand, 96,099 pupils, which is equal to 55 percent, failed to identify the correct answer. The fact that only a few pupils were able to choose the correct answer shows the challenges that exist for many pupils in using computers. Since passwords are necessary steps in booting up a computer in most modern computers, failure by many pupils to choose the correct answer is a sign that many of them lack computer skills. Table 9 shows the pupils' answers and the performances in this question.

Table 9: Pupils' Performance in Question No. 10

No. of Pupils	Correct Responses	%	Incorrect Responses	%	Not responded	%
174,859	78,753	45.0	96099	55	7	0.0

2.2 Section B: Matching Items

Questions 11 to 15 in this section had matching items. The pupils were required to match statements that explained different parts of the computer system in List A, with their corresponding names in List B, as shown in the table by writing the letter of the corresponding answer in the brackets provided.

No	List A	Letter	List B
11.	Used to receive data and processes it into useful information	()	A. mouse
12.	Used to print processed information on paper	()	B. Keyboard
13.	Used to display the information available in a computer.	()	C. Speakers
14.	Used to enter instructions into the computer	()	D. Printer
15.	Used to produce sound from the computer	()	E. System Unit F. Monitor G. Storage H. Compact Disc

In question 11, the pupils were required to identify the part of the computer that is “used to receive data and processes it into useful information”. In attempting this question, the pupils were required to have good knowledge of the computer system and the functions of each part in the computer. The performance in this question was poor as 127,302 pupils, which is equal to 72.8 percent, were not able to match the statement with a correct part which is “E: system unit”. The system unit contains an important part of the computer, the processor which processes all the data that are entered into the computer for processing. Failure to match the statement with the correct part is an indication that many of the pupils lack the necessary knowledge and skills in using computers, particularly the knowledge about the functioning of the computer system. In addition to that, 47,549 pupils, which is equal to 27.2 percent, were able to match the statement with the correct part of the computer. The few pupils who were able to match correctly showed that they had adequate knowledge of the computer system. The analysis of the performance of the pupils is shown in table 10.

Table 10: Pupils’ Performance in Question No. 11

No. of Pupils	Correct Responses	%	Incorrect Responses	%	Not responded	%
174,859	47,549	27.2	127,302	72.8	8	0.0

The statement in **question 12** reads as follows: “used to print processed information on paper”. This question also assessed the pupils’ knowledge and skills of using computers. The pupils were expected to identify how processed information in the computer is printed on paper. The performance in this question was also poor since 114, 867 pupils, which is equal to 65.7 percent, failed to match

the statement with an appropriate computer part which was item “D: Printer”. Failure of such a big number of pupils to identify that the printer is used to transfer information from the computer to the paper is an indication of inadequate computer usage. This can also imply that pupils are not aware of the different parts of the computer and how they relate when the computer is functioning. On the other hand, only 59,985 pupils, which is equal to 34.3 percent, were able to match the statement with the correct part of the computer, as shown in table 11.

Table 11: Pupils’ Performance in Question No. 12

No. of pupils	Correct Responses	%	Incorrect Responses	%	Not Responded	%
174,859	59985	34.3	114,867	65.7	7	0.0

The statement in **question number 13** was as follows: “Used to display information available in a computer”. In this question, the pupils were required to match this statement with a part of computer that performs that function. This means that, the pupils’ knowledge of the uses of the computer was important in enabling them to answer the question correctly. The performance of the pupils in this question was also weak. A total of 115,317 pupils, which is equal to 65.9 percent, failed to match the statement with a correct part of the computer, which was item “F: monitor”. Failure of pupils to match the statement with a computer part is a sign that most pupils lack the knowledge and skills of using computers. The screen is a necessary part of the computer which is used to enable the user to see the information that is in the computer. Thus, the failure of many pupils to match this statement with a correct part proves many pupils are not aware of the uses of computers. On the other hand, 59,538 pupils, which is equal to 34.0 percent, were able to match the

statement with a correct computer part, which is an indication that a few pupils had the required knowledge of various parts of computers. Table 12 shows the statistics of the pupils' performance.

Table 12: Pupils' Performance in Question No. 13

No. of Pupils	Correct Responses	%	Incorrect Responses	%	Not Responded	%
174,859	59,538	34.0	115,317	65.9	7	0.0

Question 14 had the statement which stated as follows: “used to enter instructions into the computer”. In this question, the pupils were required to match this statement with a part of computer which is used for entering instructions in the computer or any other tasks. This also was a question which required the pupil to have the knowledge of how to use computers. Any pupil with the knowledge of how to use a computer would have managed to respond to this question easily. However, this question too, was poorly performed since 134,833 pupils which is equal to 77.0 percent, were not able to match this statement with a corresponding part of the computer. Failure of the pupils to match the statement with a correct computer part implies that they didn't have sufficient knowledge and skills of using computers and therefore failed to know which part is used for entering the instructions into the computers. On the other hand, only 40,005 pupils, which is equal to 22.9 percent, were able to match the statement with the correct computer part which is item “B: Keyboard”. These pupils succeeded to match the statement with the correct part because they had the knowledge and skills of using computers. Table 13 shows the responses of the pupils in this question.

Table 13: Pupils' Performance in Question No. 14

No. of pupils	Correct Responses	%	Incorrect Responses	%	Not Responded	%
174,859	40,005	22.9	134,833	77.0	21	0.0

Question **number 15** was the last in this section. The statement of this question read as follows: "Used to produce sound from the computer". This question aimed at assessing the knowledge of the pupils about the part of computer which gives sound. In order to answer the question correctly, the pupil was required to have the knowledge of different parts which form the computer system. This question was performed better than all of the questions in this section. A total of 120,968 pupils, which is equal to 69.2 percent, were able to match the statement with a correct part of the computer which was item "C: Speaker". Since speakers are used in other communication devices such as radio, the pupils transferred the knowledge and were able to understand the uses of this part in a computer. The analysis shows that, 53,878 pupils, which is equal to 30.8 percent, were not able to match the statement with a correct part of the computer. This indicated lack of knowledge and skills in using computers. Table 14 shows the responses of pupils.

Table 14: Pupils' Performance in Question No. 15

No of pupils	Correct Responses	%	Incorrect Responses	%	Not responded	%
174,859	120,968	69.2	53,878	30.8	13	0.0

2.3 Section C: TRUE or FALSE Items

In section C (question 16 - 20), the pupils were required to respond by writing TRUE or FALSE in the provided space. The pupils were

required to write TRUE if the statement presented correct contents and FALSE if it presented an incorrect content. The analysis of the pupils' response is as follows:

Question 16: Screaming was used during the ceremonies. _____

The question assessed the knowledge of the pupils about screaming as a form of communication. This question was performed well as 131,538 pupils, which is equal to 75.2 percent, wrote FALSE which was the correct response. This is the correct response because screaming, as way of communicating, is used during emergencies. People who are in danger scream so that they can get assistance from other people. Good performance in this question can be linked to the fact that screaming is often used in the society. It is only 43,310 pupils, which equals 24.8 percent, who wrote TRUE. These responses indicate limited ability of pupils to differentiate the joyous voices which may be heard in ceremonies from screaming, which by its nature signifies danger. Pupils' responses are shown in table 15.

Table 15: Pupils' Performance in Question No. 16

No of pupils	Correct Responses	%	Incorrect Responses	%	Not Responded	%
174,859	131,538	75.2	43,310	24.8	11	0.0

Question 17: Road signs give safe ways of using the road. _____

This question assessed the knowledge of the pupils in using signs as a means of communication. The pupils were expected to know aware that road signs are important because they give the road users the condition of the road and caution them it using it. The performance of the pupils in this question was good as a total of

149,819 pupils, which is equivalent to 85.7 percent, wrote TRUE which was the correct answer. This kind of performance shows that pupils understood the uses of signs especially road signs. This can be attributed to the fact that, the pupils are part of the society and therefore see the road signs being used although they are also taught how to use them in schools. On the other hand, 25,034 pupils, which is equal to 14.3 percent, wrote FALSE, which was not the correct response. The reason for this response could be due to lack of knowledge of these pupils about road signs. Table 16 shows the analysis of pupils' responses.

Table 16: Pupils' Performance in Question No. 17

No. Pupils	Correct Responses	%	Incorrect Responses	%	Not Responded	%
174,859	149,819	85.7	25,034	14.3	6	0.0

Question 18: Books can be arranged in the library according to the author. _____

This question aimed at assessing the knowledge of pupils about the principles used in arranging written materials in the library. The performance in this question was good since 112,858 pupils, which is equal to 64.6 percent, wrote "TRUE" which was the correct response. Pupils had good knowledge of library use, which assisted them in identifying the truth of the statement. On the other hand, 54,281 pupils, which is equal to 31.0 percent, responded "FALSE", which was not a correct response. Such a response implies that the pupils failed to understand the requirement of the question hence failing to respond correctly. A total of 7,620 pupils, which is equal to 4.4 percent, did not attempt that question. The responses of the pupils are analysed in figure 2.

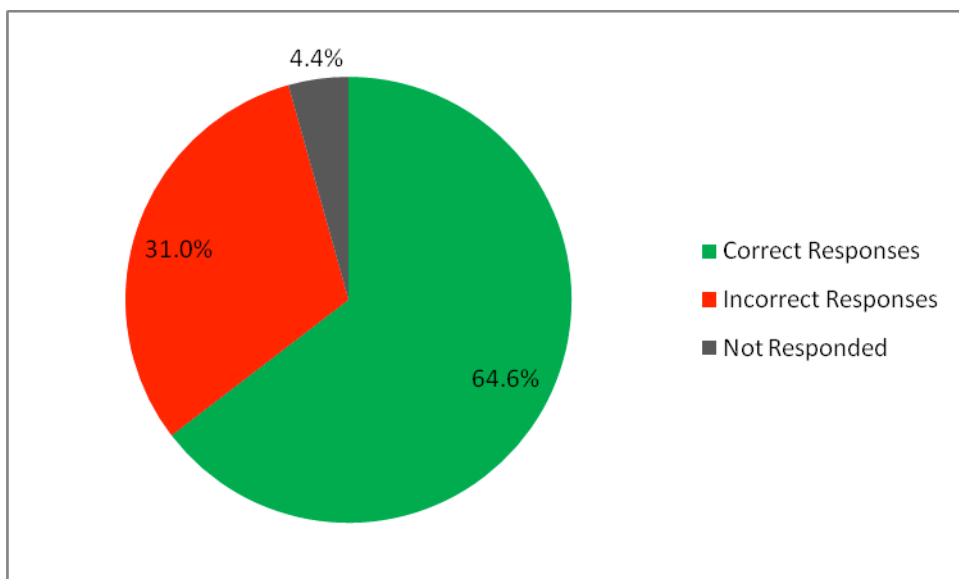


Figure 2: Good Performance, Whereby 64.6 Percent of The Pupils Responded Correctly.

Question 19: Horn is the modern way of communication. _____

This question aimed at assessing the knowledge of pupils about methods of communication. The pupils were expected to be able to differentiate between modern and traditional ways of communication. The knowledge and skills of modern and traditional methods of communication was important in enabling the pupils to answer this question. The performance in this question was average since 93,887 pupils, which is equal to 53.7 percent, wrote “FALSE” which was the correct response. This response shows that most of the pupils had sufficient knowledge which enabled them to distinguish the modern methods of communication from the traditional ones. On the other hand, 73,344 pupils which is equal to 41.9 percent wrote “TRUE”, which was not the correct answer due to insufficient knowledge of methods of communication. A total of 7,628

pupils, which is equal to 4.4 percent, did not attempt this question. The analysis of the pupils' responses is shown on figure 3.

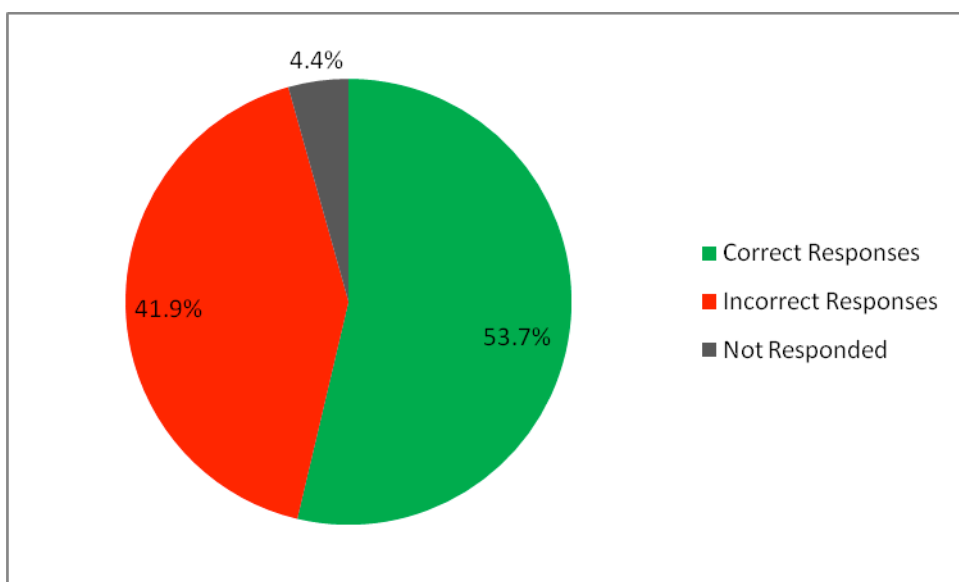


Figure 3: Average Performance, where by 53.7 Percent of the pupils Responded correctly to this Question.

Question 20: Most computers use Microsoft Word application software ____

This question aimed at assessing the knowledge which the pupils had about different programs which are used in computers. Many computers in Tanzania use Microsoft word as an important Word processing program. The performance of the pupils in this question was good since 111,895 pupils, which is equal to 64.0 percent, wrote "TRUE", which was the correct response. These pupils showed adequate knowledge and skills in using Microsoft Word as a word processing program. On the other hand, 55,342 pupils, which is equal to 31.6 percent, wrote "FALSE", which was not a correct response. This implies that these pupils lacked the necessary knowledge and skills in using computers, particularly computer applications. As a result, they failed to identify the popular word

processing program. As figure 4 shows, 7,621 pupils, which is equal to 4.4 percent, did not attempt this question.

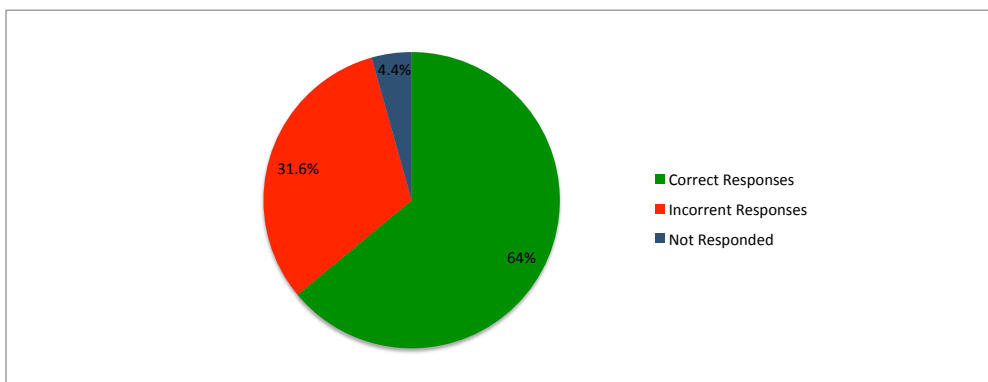


Figure 4: Good Performance where by 64.0 percent of the Pupils Respond Correctly to the Question.

2.4 Section D: Short Answer Items

This section consisted of short answers questions. Pupils were required to read the question and then provide the answer by writing in the provided space. In general, the performance of the pupils in this section was poor. The analysis of each question is as follows.

Question 21: The accessory which is used to re-charge a mobile phone battery is called _____

This question assessed the knowledge of the pupils about the uses of mobile phones and how these phones are recharged. In order to answer this question the pupils had to have the necessary knowledge and skills of using mobile phones, particularly on how those phones are recharged. The performance in this question was poor since only 38,830 pupils, which is equal to 22.2 percent, were able to give the correct answer, which is the “charger”. Another group of 128,409 pupils, which is equal to 73.4 percent, failed to give the correct answer. The reasons for pupils to fail to give the correct

answer can include lack of knowledge of how the mobile phone battery is charged. It was also noted that some pupils lacked writing skills. This is evidenced by the pupils' failure to write legibly writings. A total of 7,620 pupils, which is equal to 4.4, did not attempt this question. Further analysis of the pupils' responses is shown in figure 5.

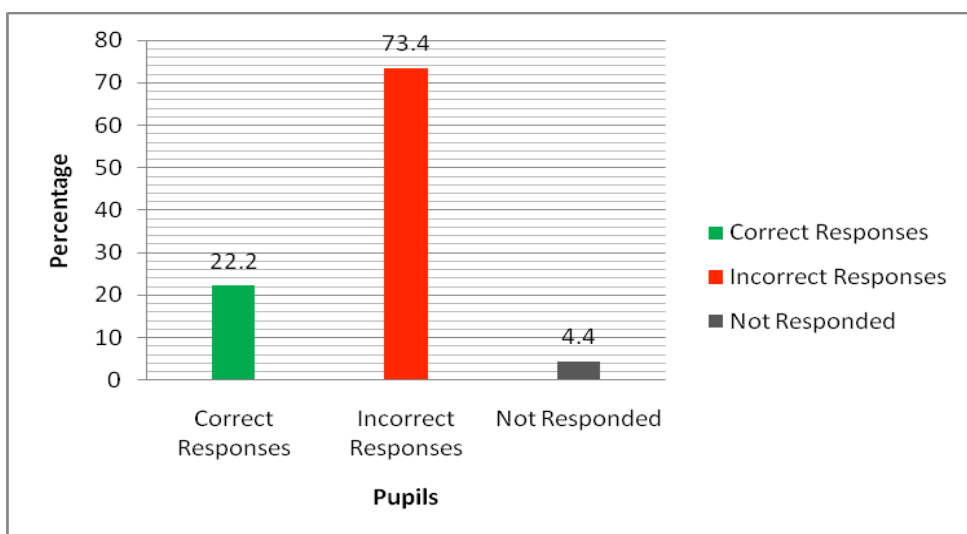


Figure 5: Poor performance, where by only 22.2 percent of the candidates gave a correct answer.

Question 22: Letters are divided into two major groups, which are friendly letter and _____

This question assessed the knowledge of the pupils about methods of communication through writing. Pupils were expected to have the knowledge of different methods of communication in writing particularly through using letters. Although this was a direct question, whereby the pupils only had to remember the two types of letters, the performance in this question was not satisfactory. A total of 64,122 pupils, which is equal to 36.7 percent, were able to give the correct answer which was "official letters". Nevertheless, 103,156 pupils, which is equal to 59.0 percent, could not give correct

responses. The pupils' lack of knowledge on methods of communication led to provision of incorrect answers. Also they lacked adequate writing skills, that is why some of them could not write legibly. A total of 7621 pupils, which is equal to 4.4 percent, did not attempt this question. The analysis of the percentage of the pupils and their responses is provided in figure 6.

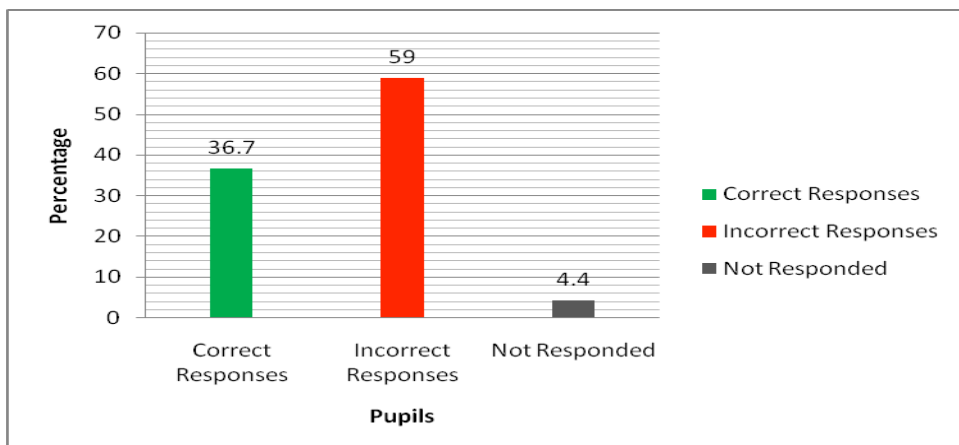


Figure 6: Only 36.7 Percent of the Pupils Wrote the Correct Answer, which is Poor Performance.

Question 23: The first step required for sending a fax is _____

In this question the pupils were required to identify the first step of sending a fax message. A total of 167,160 pupils attempted this question whereby, 164,507 pupils (94.0%) failed to give a correct answer which was “to prepare the message you want to send”. Some of the pupils wrote answers like to ‘to send letters’, ‘to make a telephone call’, and others wrote; ‘to send a message through phone’. These pupils lacked knowledge about the steps to be followed when sending messages by using fax. Other pupils failed to understand the requirement of the question and therefore gave irrelevant answers. Nevertheless, only 2,831 (1.6%) pupils were able to give the correct answer. This is a sign that, only a few pupils have

the knowledge on how to use faxes. On the other hand, 7,699 pupils (4.4%) did not attempt this question.

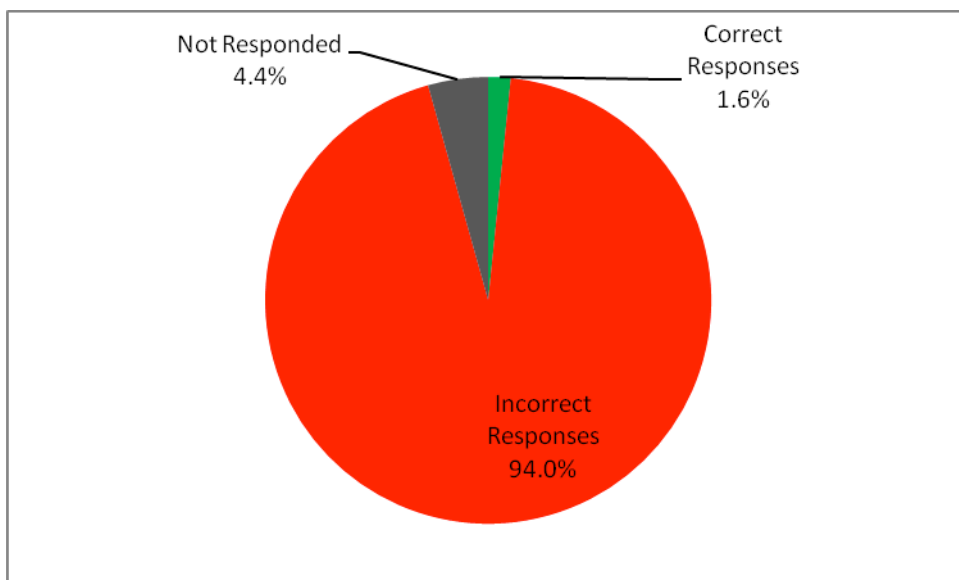


Figure 7: Weak Performance: Only 1.6 Percent of the pupils got the Question Right.

Question 24: The following diagram is called _____



The diagram which is referred to in the question is a picture of a landline telephone. This question required the pupils to have the ability to distinguish different forms of phones, hence expecting them to identify the picture and classify it. The performance in this question was average, as 91,365 pupils, which is equal to 52.3 percent were able to identify the picture correctly as a landline telephone. The recognition of that picture correctly was not only a result of the pupils' knowledge of different types of telephones from reading about them in books at school, but also seeing them being

used in different settings such as offices. On the other hand, 75,876 pupils, which is equal to 43.4 percent, were not able to classify that picture correctly an indication that the pupils lacked the knowledge and skills fo classifying telephones. A total of 7,618 pupils, which is equal to 4.4 percent, did not attempt this question. Figure 8 shows the analysis of the pupils' responses.

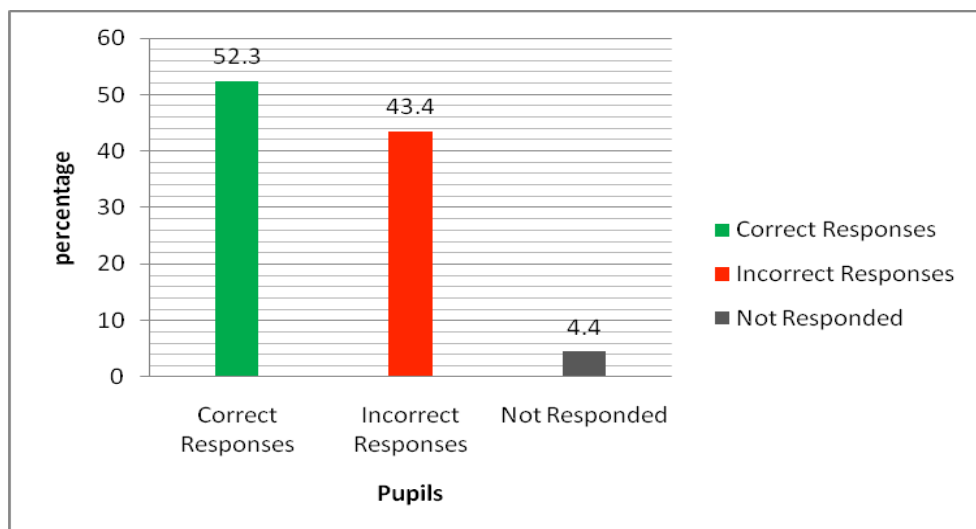


Figure 8: Average performance of 52.3 percent.

Question 25: One advantage of computers is _____

In this question, the pupils were required to have good knowledge about the advantages of using computers. The pupils were required to give only one advantage among the advantages of using computers. Despite the fact that the question had a wide range of responses, the performance was still not satisfactory. Only a total of 36,713 pupils, or 21.0 percent were able to give the correct advantage of using computers. On the other hand, 130,438 pupils, or 74.6 percent, could not give the correct advantage of using computers. Such a big number of students who could not answer the question correctly imply that the pupils did not have adequate

knowledge on the topic of “computers and their uses”. Another 7,608 pupils, which is equal to 4.4 percent, did not attempt this question. Figure 9 shows the distribution of pupils’ responses to this question.

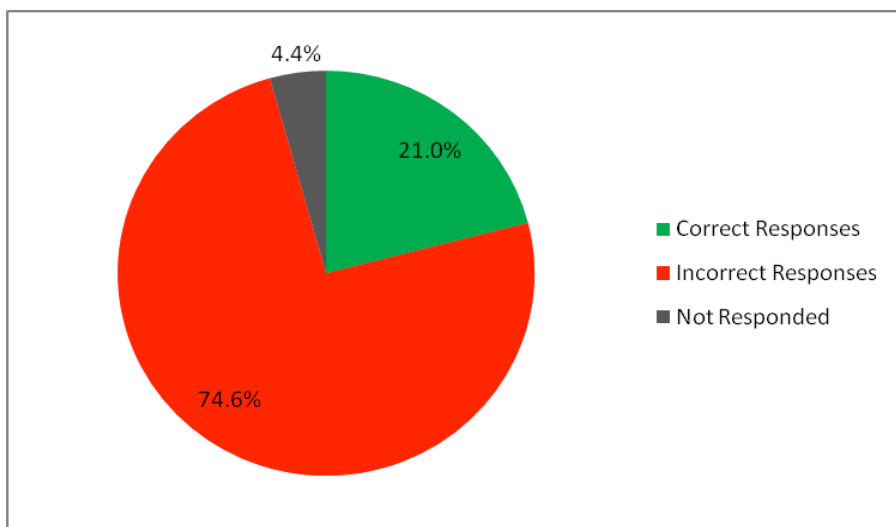


Figure 9: Weak Performanc, Whereby Only 21.0 of the Pupils Responded Correctly to the Question.

3.0 ANALYSIS OF EACH OF THE ASSESSED TOPIC

A total of 8 topics were assessed in the ICT subject. In general, the performance in the ICT subject in all the topics is categorized in two groups; topics in which the performance was good and those which the performance was average. There were no topics which were performed poorly. Out of the eight topics which were assessed, pupils’ performance was good in five topics. These topics include; Communication through Signs, Use of Library, Communication Methods, Use of Information Equipment, and Uses of Information and Communication Centres.

The topic on Communication through Signs had one question. In this question, the pupils had a good performance of 85.1 percent. The

pupils' performance was good also in the topic on Use of Library, which had two questions, whereby 77.5 percent of the pupils performed well. Nevertheless, pupils' performance was good also in the topic on Communication Methods, whereby 72.8 percent did well. Another topic in which the pupils' performance was good is the one on Uses of Communication Equipment whereby the pupils passed at good performance of 69.8 percent. The pupils performed well also at 59.8 percent in the topic on Uses of Information and Communication Centres.

In the three topics on Computer and its Uses, Telephone and Communication through Writings, the pupils' performance was average. The topic on Computer and its Uses had a total of 8 questions, whereby the pupils performed averagely at 40.8 percent. On the other hand, the pupils also performed averagely on the topic of Telephone, whereby 37.3 percent passed in this topic which had five questions. The topic which appeared to be a challenge to the pupils was the one on Communication through Writings, which though the performance was average (29.9%), it was lower than in all the other topics. Appendix A shows the performance of each topic in summary. Topics in which the performance of the pupils is good are coloured green, whereas topics in which their performance is average are coloured yellow.

4.0 CONCLUSION

The analysis of the pupils' responses in the Standard Four National Assessment (SFNA) 2015 for ICT subject shows that 9 questions out of 25 were well attempted. The remaining 16 questions which were from the topic on "computer and its uses", "Telephones" and "Communication through Writings" were averagely performed in

general. The topics which were performed well include: Uses of Communication and Information Centres, Uses of Communication media, Methods of Communication, Library Use and Communication through Signs. The National Examinations Council of Tanzania hopes that this analysis will help to strengthen the infrastructure in schools in order to enhance the teaching and learning of ICT. NECTA also hopes that the topics which were a challenge to the pupils in the assessment will be examined so as to learn about the reasons for poor performances in these topics.

5.0 RECOMMENDATIONS

In order to improve our education standards in general and ICT in particular, the National Examinations Council recommend the following:

- (a) Teachers should put more efforts in teaching all topics, particularly the topics which the pupils performed averagely during the 2015 National Assesement which are; Communication through Writings, Telephones, and Computer and Its Uses.
- (b) Pupils should be encouraged to read the questions carefully in order to enable them to identify the requirement of each question. This will enable them to answer the questions correctly instead of rushing to attempt them and end up giving incorrect responses.
- (c) Pupils should be encouraged to read both textbooks and reference books in order to enhance their knowledge As a

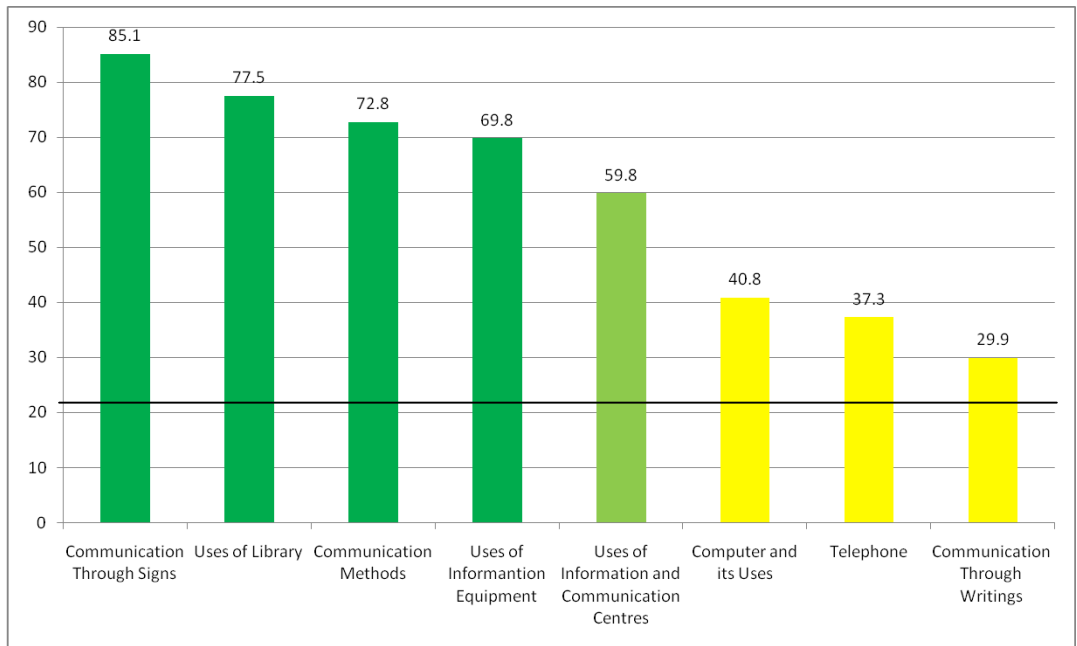
result, they will be in a good position of attempting the questions during the assesement.

- (d) Authorities concerned should make a follow-up on the teaching and learning of ICT in order to identify different challenges and thereater seek solutions which will facilitate improvement of the teaching and learning environment. In this way, performance standards will be improved.

**PUPILS' PERFROMANCE IN EACH TOPIC IN SFNA 2015 FOR TEHAMA/ICT
SUBJECT**

No	TOPIC	SFNA ASSESSMENT 2015			
		Performance per question		Average	Comments
		Qn number	% passed		
1.	Communication through Signs	17	85.1	85.1	Good
2.	Use of Library	6	90.6	77.5	Good
		18	64.6		
3.	Communication Methods	3	89.7	72.8	Good
		9	72.8		
		16	75.2		
		19	53.7		
4.	Uses of Information Equipment	7	69.8	69.8	Good
5.	Uses of Information and Communication Centres	5	59.8	59.8	Good
6.	Computer and its uses	10	45.0	40.8	Average
		11	27.2		
		12	34.5		
		13	34.0		
		14	22 .9		
		15	69.2		
		25	21.0		
7.	Telephone	1	35.6	37.3	Average
		2	43.7		
		8	63.8		
		21	22.2		
		24	21.0		
8.	Communication Through writings	4	51.6	29.9	Average
		22	36.2		
		23	1.6		

PERCENTAGE OF THE PUPILS WHO DID WELL IN EACH TOPIC



Appendix B shows that the pupils' performance in three topics was average. On the other hand, the performance in five topics was good.

