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in automotive engineering

## Tesi di Laurea Magistrale SAFETY AWARENESS IN THE SCHOOL STUDENTS DATA COLLECTION AND ANALYSIS



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## 1. INTRODUCTION

### 1.1 Background

Safety is a situation where hazards and conditions leading to the physical, psychological or material harm are controlled in order to preserve the health and well-being of individuals and the community depending on INSPQ (WHO Collaborating Center, 1998). Danger is everywhere such as natural disaster, traffic accidents, hazards due to incorrect habits in life and so on. The accidents not only harm people's body but also wound the mind. To reduce risks and hazards it's important to increase people's safety awareness level.
Much money was spent on these accidents around $35,000,000,000$ euro in the European Union in 2004 (Battaglia, 2014). This value indicates these accidents cause social economy problems, so UE promoted policies to reduce the accidents since 1989 as the Council Directive 89/391/EEC (1989). INAIL (Italian institution for insurance against accidents) evaluates the Italian domestic accidents in around 3,000,000 (Ferrante, 2012) and some accidents were caused by children.
Not only occupational incidents are tried to be reduced but also safety in the schools is a critical issue. According to the INAIL, there are over 77 thousand reports of injuries to state public school students presented to INAIL in 2018, 1,400 more than the previous year. The increase is equal to $2 \%$ and confirms the growth trend started in 2017 (Radazione, 2018).
Different accidents are caused by the lack of safety knowledge. For example, in 2014, during the lesson of physical education, the student climbed onto a railing positioned in the courtyard to access to a skylight. The skylight is covered by a thin Plexiglas, which has been crushed when the student stood on the top of it and it leads to the death of the student (Chiara spagnolo, 2014). If this student had known more about safety knowledge, he would not be dead. Students are the future of the world. If more and more students know the importance of the safety, injuries and death will decrease a lot in the world. To reduce the accidents in the schools in December 16, 2017, INAIL and MIUR (Ministry of Education, University and Research) have promoted a series of initiatives aimed at spreading health and safety at work in schools. Numerous training projects were carried out in 2018 by the regional departments to make teachers and students aware of the culture of health and safety, with a view to overcoming the distances between school and the world of work.

### 1.2 Literature analysis

To satisfy national regulations and standards about decreasing the occurrence of risks in the schools and in the work more safety awareness was obtained and recognized in literature (Lee \& Harrison, 2000). Literature provides several studies on the safety (Choudhry, 2007) in many kinds of work such as: medical sector (Kolade,2002); Sarawak street food safety (Mizanur Rahman,2012); Iranian meat
processing (Ansari-Lari, 2010) and so on. Besides these paper about work, there is also lots of literature about safety in the schools which can be found involving many sectors such as: Khairul Ridhwan Rozak (2017) presented an article about the safety level and current situation of safety in the UiTM (Universiti Teknologi MARA); Suzanne\& Lindsay (2013) studied the effects on the students due to some measures for increasing safety level in the schools; Linda \&Mary (2009) evaluated college students' food safety attitudes, beliefs, and knowledge.
Although some researches have been done to study situation about safety awareness of students and some steps have been adopted to improve students' safety awareness, more studies are needed to investigate the safety culture in schools. In Europe, in order to increase the safety knowledge level and diffuse safety culture among students it's important to teach children some basic safety rules. For this reason, some activities were developed such as "Napo for teachers" (napofilm.net, 2017), "Scuola e sicurezza-School and safety" (Dettoni, 2011) and "A scuola di sicurezza! At safety school!" (Bove, 2002). To further reduce accidents in schools the current situation about safety is still worthy of study. This thesis attempts to investigate the safety knowledge in the schools.

### 1.3 Methods of this survey

This thesis presents the data on the safety knowledge addressed a sample of Turin students, which were tested through the participation to a simple game. Each student was asked questions randomly and the participants can compete in groups, verifying who could provide the most correct answers. There were 147 questions in total and the questions were divided into two part: "Primary" questions and "Secondary" questions. There were 65 questions ("Primary" questions) for primary school students and 82 questions ("Secondary" questions) for secondary school students. "Primary" questions are a little simpler than "Secondary" questions. All students from five schools at different places of Turin were the participants of this game. The way of game was adopted in order to involve more students in this survey and attract their interest. Each student was asked two or three questions in a random way (the number of asked questions depending on the time and students' willingness) and all data were recorded and analyzed later. More than 900 students participated to the survey. Students (age from 7to 15 ) including 670 primary school students and 316 secondary school students participated to the safety game, providing meaningful indications on the safety knowledge levels of the students and verify the how much safety information students acquired at the schools. In the following thesis, all data will be shown that was collected and analyzed what represent these data and the difference of correct answer percentage of students in detail.

### 1.4 The importance of this thesis

The incidents become an economic and social problem (Hamalainen et al., 2006). This survey can know more current situations about safety in the schools. When
students have a complete sense of safety, this is a correct way to promote students thinking and learning. Therefore, a safe and stable school environment can let the student set his mind in an appropriate way. If students know more about safety, they can avoid serious hazards and stay far away from danger. These questions can make students know more safety knowledge and behave right in life. For this reason, the number of injures and death of students due to lack of safety knowledge can decrease. For example, many traffic accidents are caused due to not obey the traffic rules. Depending on the ISTAT (Istituto Nazionale di Statistica), in 2017, 174,933 road accidents occurred in Italy resulting in death or injury with 3,378 deaths (within 30 days) and 246,750 injured. If students know more about traffic rules the number of death and injuries on the traffic accidents can be decreased. Through this thesis current safety awareness situation can be shown and students can know more knowledge about safety and especially those error answers questions can be taught and consolidated in lessons. Keeping schools safe allows children to look forward to being in an encouraging environment that promotes social and creative learning.

## 2. RESEARCH METHOD AND REASONS

The data collection was acquired by the way of a game. The game can disseminate the safety rules and show the results of this survey on the safety fields. A random approach of selecting two or three questions for each participant was adopted. The number of questions that were asked to the students depending on the time and students' willingness. After each student was asked two questions, if time permitted another question would be provided to those students who were willing to answer more questions. And these answers can be used to investigate the safety knowledge level in the schools.

### 2.1 Gaming

To learn current situation about students' safety awareness and collect data, the way of the game was adopted. For attracting the interest of these students, a game approach was used which the student had the most correct answers that can won and got some awards. This way can increase students' competitiveness and willingness. During the game the participants are proposed two or three questions on the safety and these questions which were chosen in a random way. These collected data present the diffusion and level of safety awareness of these students. The activity in five schools was implemented. Three primary and two secondary schools are contained. The set of questions includes 147 questions about safety in total and these questions are divided into two parts: "Primary" part and "Secondary" part. The "Primary" part questions are set for primary school students and "Secondary" questions are prepared for secondary students. There are 65 questions in the "Primary" questions and 82 questions in the "Secondary" questions and "Secondary" questions are more difficult than "Primary" questions. These questions contain many aspects like safety rules in the schools, traffic rules, personal safety, properties safety, safety signals and symbols, living habits and so on.
These questions tested the safety knowledge level of the participants. The number of correct and incorrect answers was analyzed later. This safe game and these collected data can be used to carry out a disseminating activity on the safety to improve the safety awareness of the students and especially these incorrect answers can be taught in classes.

### 2.2 Questions

Two categories of the questions addressed different age students include "Primary" questions which were set for primary school students and "Secondary" questions which were set for secondary school students. The primary school students are almost from seven to ten years old and a few eleven and twelve years old. The secondary school students are from eleven to fifteen years old. The questions allow a multiple-choice: three or four possible answers and only one is correct. For each participant three important information was be collected: firstly, basic general data (like gender, age); secondly, ID code of the question proposed;
thirdly, answers obtained (wrong or right).

### 2.2.1 "Primary" questions

There were 65 questions set for "Primary" part, covering different safety fields. There were 5 topics in total in the "primary" questions:

1. Domestic risk
2. Free sports, game
3. Emergency
4. Life in schools and behavior
5. Street (behavior and signals)

These questions present simple part and students have to choose a solution between three choices that they think is right. An example of "Primary" questions is the Figure 1 and the its' solutions are shown in the Figure 2. This example is about the topic of the domestic risk.

## B.18) Hai finito di fare la doccia e un pó di acqua è énitata per terra. Cosa fai?

Figure 1: One example about domestic risk topic in the primary schools

## a. Corri immediatamente a chiamare la mamma. <br> b. Inizi a vestirti. c. Butti gli asciugamani per terra.

Figure 2: One example about domestic risk topic solutions in the primary schools
"When you finish taking a shower and some water is on the floor, what will you do?
A. run immediately to call the mama;
B. start to dress yourself;
C. throw the towels on the floor."

Five students were asked the question and all students gave the right answer.

Depending on this the most students know how to do when face some hidden domestic danger in life like this.
The other example in the "Primary" questions and its' solutions are in the Figure 3 and the Figure 4. This example is about the topic of emergency.

## B.12) Senti una scossa di terremoto, cosa fai?

Figure 3: One example about emergency topic in the Primary questions

## a. Ti abbassi e infili sotto il tavolo e aspetti che passi. <br> b. Vai sul balcone a vedere cosa succede. c. Scendi subito le scale per uscire in fretta.

Figure 4: One example about emergency topic solutions in the Primary questions
"When you feel an earthquake what will you do?
A. lower yourself and stick it under the table and wait for it to pass;
B. go to the balance and see what happens;
C. immediately go down the stairs to get out quickly."

Only two students were asked this question and one student gave the correct answer and the other gave the wrong answer. How to do the right actions when face the immediate disaster is an important aspect to reduce the students' accidents and hazards.

### 2.2.2 "Secondary" questions

About 82 questions were contained in the "Secondary" part, covering seven safety fields:

1. Domestic risk
2. Free sports game
3. Emergency and basic knowledge of risk
4. Life in schools and behavior
5. Street (behavior and signals)
6. Technological risk
7. Chemical (substances, fire, explosion)

An example of "Secondary" question and its solutions are in the Figure 5 and the Figure 6. The first example is about chemical substance.

## 13) Quali tra queste sostanze può

## causare un'esplosione violenta?

Figure 5: One example about chemical substance topic in the secondary schools

## a. Gasslio <br> b. Farina <br> c. Olio extravergine di oliva

Figure 6: One example about chemical substance solutions in the secondary schools
"which of these substances can cause a violent explosion?
A. diesel fuel;
B. flour;
C. extra virgin olive oil."

Forty students were asked this question and sixteen students gave right answer and twenty-four students gave wrong answer. The secondary students' safety knowledge was limitation. Flour can explode and it's very dangerous. Teachers highlighted this point in the education lessons to consolidate this knowledge and students may reduce injuries and death due to this aspect.
The other example and its solutions are in the Figure 7 and Figure 8. This example is about free sports and game topic.

## 67) Quanto posti una foto o un

## commento su un social dopo quanto

## ternpo non è più rintracciabile?

Figure 7: One example about the topic of free sports and game in the secondary" schools

## a. 1 ora

b. 1 giorno
c. 5 anni
d. Fino al collasso del web

Figure 8: One example about the topic of free sports and game solutions in the secondary schools
"If you post a photo or comment on social media after how long it is no longer traceable?
A. One hour;
B. One day;
C. Five years;
D. until the web collapses."

This question was asked to thirteen students and only two students gave wrong answers. The students in the secondary schools know much knowledge about internet because students may use the internet every day with the rapid development of the network. Students' right answer percentage of the question about social network is higher than upper question about chemical composition properties.

## 3. DATA COLLECTION

In this section the process of collecting data and tables which were acquired by arranging the collected data from five schools is shown. The information in the tables includes question ID code, general information of each participants and answers obtained. These tables are used to analyze safety awareness level and correct answer percentage difference of students due to the gender, the age or the school location. For example, the Table 1 shows the data collected from one class in the primary schools and Table 2 shows the data collection of one class in the secondary schools. The other class data is shown in the annex.

### 3.1 Process

Firstly, a lesson about safety was started in each class in the one of the primary schools. Then in the lesson 2 hours were spent to asked each student two or three questions which were selected in the "Primary" questions. Each question has three or four possible answers and each student selected one answer they thought was right and then each student's age, gender, question number and their answers were collected. The tables were used to collect information. Finally, all questions were given to the teachers and taught right answers to the students especially these questions which were given wrong answers. The Table 1 shows the example of collected data of one class in the primary schools.

Table 1: one example of collected data of one class in the primary schools

| PARTICIPANT | AGE | GENDER | QUESTION | ANSWER | QUESTION | ANSWER | QUESTION | ANSWER |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 9 | F | 33 | YES | 20 | YES | 12 | YES |
| 2 | 10 | M | 49 | YES | 13 | YES | 40 | NO |
| 3 | 9 | F | 3 | YES | 27 | YES | 44 | NO |
| 4 | 9 | F | 26 | YES | 8 | NO |  |  |
| 5 | 9 | M | 52 | YES | 42 | NO |  |  |
| 6 | 9 | M | 28 | YES | 47 | YES |  |  |
| 7 | 9 | F | 9 | YES | 21 | NO |  |  |
| 8 | 9 | M | 1 | NO | 7 | YES |  |  |
| 9 | 9 | M | 47 | YES | 16 | YES |  |  |
| 10 | 9 | F | 36 | YES | 10 | YES |  |  |
| 11 | 9 | M | 33 | YES | 5 | NO |  |  |
| 12 | 9 | F | 49 | YES | 41 | YES |  |  |
| 13 | 9 | F | 8 | YES | 6 | NO |  |  |
| 14 | 10 | F | 30 | YES | 29 | YES |  |  |
| 15 | 9 | M | 42 | YES | 2 | YES |  |  |
| 16 | 9 | M | 12 | YES | 45 | YES |  |  |
| 17 | 9 | F | 18 | YES | 40 | NO |  |  |
| 18 | 9 | F | 7 | NO | 23 | NO |  |  |

The Table 2 is shown as an example of collected data of one class in the one of the secondary schools. And the other classes are similar with this.

Table 2: one example of collected data of one class in the secondary schools

| PARTICIPANT | AGE | GENDER | QUESTION | ANSWER | QUESTION | ANSWER | QUESTION | ANSWER |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 13 | M | 47 | NO | 17 | NO | 74 | NO |
| 2 | 13 | M | 48 | NO | 56 | YES | 6 | NO |
| 3 | 15 | F | 11 | NO | 69 | NO | 61 | NO |
| 4 | 13 | F | 51 | YES | 46 | YES | 65 | NO |
| 5 | 13 | F | 21 | YES | 26 | YES |  |  |
| 6 | 13 | F | 55 | YES | 52 | YES |  |  |
| 7 | 14 | M | 54 | YES | 8 | NO | 42 | NO |
| 8 | 14 | F | 19 | YES | 58 | YES | 18 | NO |
| 9 | 13 | F | 69 | YES | 68 | YES |  |  |
| 10 | 14 | F | 32 | YES | 33 | NO |  |  |
| 11 | 14 | M | 41 | YES | 3 | NO |  |  |
| 12 | 13 | M | 70 | NO | 72 | NO | 16 | NO |
| 13 | 13 | M | 14 | NO | 22 | YES | 5 | NO |
| 14 | 14 | M | 29 | NO | 63 | YES | 60 | NO |
| 15 | 13 | F | 2 | YES | 13 | NO | 68 | YES |
| 16 | 14 | F | 9 | YES | 6 | YES | 73 | YES |

### 3.2 Analysis of the primary school class

In the example of the primary school class, there are 18 students in this class and these students are primary school students so these students were asked "Primary" questions. There were 3 students who were asked 3 questions and the other 15 students were asked 2 questions. There were 39 questions that were asked and 28 answers were right. The correct answer percentage of this class is $71.8 \%$ (Figure 9).


Figure 9: correct answer percentage in one of the primary school classes

There are 10 girls and 8 boys in this class. Boys were asked 17 questions and girls were asked 22 questions. Boys had 13 correct answers and girls had 15 correct answers. Boys have $76.5 \%$ correct answers and girls have $68.2 \%$ correct answers. In addition, there are 2 ten years old students and 16 nine years old students. Ten years old students were asked 5 questions and nine years old students were asked 34 questions. Ten years old students had 4 correct answers and nine years old students had 24 correct answers. Ten years old students have $80 \%$ correct answer percentage and nine years old students have $70.6 \%$ correct answer percentage. These data were arranged in the Figure 10 and Figure 11. And the other classes correct answer percentage can be calculated like this.


Figure 10: correct answer divided by gender


Figure 11: correct answer divided by age

By the upper two figures, boys have higher correct answer percentage and the older students have more safety knowledge.

### 3.3 Analysis of the secondary school class

There are 16 students in this class and these students are secondary school students so these students were asked "Secondary" questions. Eleven students were asked 3 questions and the other five students were asked 2 questions. There were 43 questions that were asked and 21 answers were right. The correct answer percentage of this class is $48.8 \%$ (Figure 12).


Figure 12: correct answer percentage in one of the secondary classes
In the similar way, boys have $25.0 \%$ correct answers and girls have $69.6 \%$ correct answers. In addition, thirteen years old students have $50 \%$ correct answer percentage and fourteen years old students have $56.3 \%$ correct answer percentage. These data were arranged in the Figure 13 and Figure 14.


Figure 13: correct answer divided by gender


Figure 14: correct answer divided by age
The older students have more safety knowledge like the example class of the primary schools, but girls have higher correct answer percentage. More data need to be analyzed to obtain more accurate results.

## 4. RESULTS AND ANALYSIS

### 4.1 Collection data analysis

In this part the distribution of gender, age, question number and corresponding correct answer percentage will be shown. Before comparing the effect of many elements such as gender, age and the school location on the correct answer percentage, the basic analysis about data must be done.

### 4.1.1 The overall data analysis

There were 986 students from 7 years old to 15 years old who were involved in the game. The specific location and the number of classes and students are presented in the Table 3. There are five schools in total and four schools in the suburbs and only one is in the city center. The first three schools are primary schools and the School 4 is secondary school and School 5 have both primary part and secondary part.

Table 3: The number of classes and students in each school

| School | Type of school | Location | Number of classes |  | Number of students |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| School 1 | Primary | Suburb | 3 Classes |  | 58 Students |  |
| School 2 | Primary | Suburb | 3 Classes |  | 54 Students |  |
| School 3 | Primary | Suburb | 9 Classes |  | 197 Students |  |
| School 4 | Secondary | Suburb | 5 Classes |  | 91 Students |  |
| School 5 | Primary and | City center | Primary | Secondary | Primary | Secondary |
|  | Secondary |  | 17 Classes | 12 Classes | 361Students | 225Students |
| Total |  |  | 49 Classes |  | 986 Students |  |

The participants were 986 students in the 49 classes in the five schools. Two hours was spent in each class to ask questions so 98 hours were spent to collect data totally. The primary schools have 29 classes which were made up of 670 primary school students. The secondary schools have 316 secondary school students which made up the 17 classes. The question distribution of each school is shown in the Table 4.

Table 4: The number of questions and correct answers in each school

|  | Primary school |  |  |  | Secondary school |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| School | School 1 | School 2 | School 3 | School 5 | School 4 | School 5 |  |
| Question number | 146 | 109 | 398 | 792 | 219 | 558 | 2222 |
| Correct answer <br> number | 108 | 75 | 236 | 485 | 114 | 280 | 1298 |
| Percentage of | $58.9 \%$ | $68.8 \%$ | $59.3 \%$ | $61.2 \%$ | $52.1 \%$ | $50.2 \%$ | $58.4 \%$ |
| correct answer |  |  |  |  |  |  |  |

The primary schools had 1445 question and among them 904 questions had correct answers so the mean value of correct answer percentage in the primary schools is $62.6 \%$. In the same way in the secondary schools 777 questions were asked and
among them 394 questions were correct so the mean value of the correct answer percentage in the secondary schools is $51.1 \%$. The correct answer percentage is higher in the primary schools than in the secondary schools because the "Primary" questions for the primary school students are simpler than "Secondary" questions for the secondary school students. In total there were 2222 questions that were asked in the survey and among these 1298 answers were correct. The overall correct answer percentage of five schools is $58.4 \%$. The most of the students have basic knowledge of safety but the level needs to be increased.

### 4.1.2 Data analysis depending on the gender

And then all female and male participant distribution is shown in the Figure 15. There were 472 female participants and 514 male participants in this survey. The male participants are more than female participants.


Figure 15: Gender distribution in five schools
The students were divided into female parts and male parts in each of the school (The Figure 16). Depending on the Figure 16, there were the most students who were involved in the survey in the School 5 and the School 5 includes primary part and secondary part school. The school 1 and the school 2 have the least students and the School 3 have the next most students. Each school has almost equal distribution in gender. The School 3 had a few more female participants and School 4 and the School 5 had more male participants.


Figure 16: gender distribution in each school
The numbers of the female and male participants in the primary schools and the secondary schools are shown in detail in the Table 5 . In the primary schools the number of female and male participants is almost distributed equally but there are more male participants in the secondary schools.

Table 5: Students' number distribution depending on the gender in the primary schools and the secondary schools

| Primary school |  | Secondary school |  |
| :---: | :---: | :---: | :---: |
| Female | Male | Female | Male |
| 339 | 331 | 133 | 183 |

The question distribution depending on the gender in the primary schools is presented on the Table 6. Depending on the Table 6, the number of questions asked and correct answer questions in the primary schools are shown. Each school correct answer percentage was calculated divided into female correct answer percentage and male correct answer percentage. The correct answer percentage of female is always higher than male in the primary schools. F is female participants and M is male participants.

Table 6: The question number distribution divided by the gender in the primary schools

| School | School 1 |  | School 2 |  | School 3 |  | School 5 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Gender | F | M | F | M | F | M | F | M |
| Question number | 74 | 72 | 55 | 54 | 196 | 202 | 405 | 387 |
| Correct answer <br> number | 58 | 50 | 40 | 35 | 126 | 110 | 255 | 230 |
| Percentage of | $78.4 \%$ | $69.4 \%$ | $72.7 \%$ | $64.8 \%$ | $64.8 \%$ | $54.5 \%$ | $63.0 \%$ | $59.4 \%$ |
| correct answer |  |  |  |  |  |  |  |  |

Then in the similar way, the number of asked questions divided by the gender in the secondary schools is shown on the Table 7. The female correct answer is still higher than male.

Table 7: The question number distribution divided by the gender in the secondary schools

| School | School 4 |  | School 5 |  |
| :---: | :---: | :---: | :---: | :---: |
| Gender | F | M | F |  |
| Question number | 113 | 116 | 221 | 327 |
| Correct answer number | 59 | 55 | 137 | 152 |
| Percentage of correct answer | $52.2 \%$ | $47.4 \%$ | $62.0 \%$ | $46.5 \%$ |

### 4.1.3 Data analysis depending on the age

In order to further understand the effect of the age on the safety knowledge, the Table 8 shows the age distribution and the Table 9 shows the number of questions of each age in the primary schools and the number of correct answers.

Table 8: Students'number distribution depending on the age in the primary schools

| Participants' age | Age=7 | Age=8 | Age=9 | Age=10 | Age=11 | Age=12 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number of | 3 | 237 | 232 | 169 | 23 | 2 |
| students |  |  |  |  |  |  |

Depending on the Table 8, there are 670 students in total in the primary schools and students who are 8 and 9 years old are the major part of participants. The number of students who are 7 and 12 years old is the smallest. To reduce the errors of correct answer percentage, this survey needs more participants who are 7 and 12 years old.

Table 9: The question number distribution divided by the age in the primary schools

| Age | Age=7 | Age=8 | Age=9 | Age=10 | Age=11 | Age=12 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Question <br> number | 6 | 545 | 476 | 366 | 48 | 4 |
| Correct answer <br> number | 4 | 307 | 330 | 231 | 29 | 3 |
| Percentage of | $66.7 \%$ |  |  |  |  |  |
| correct answer |  |  |  |  |  |  |

The Table 10 shows the age distribution in the secondary schools and the table 11 shows the number of questions and correct answers of each age in detail in the secondary schools.

Table 10: Students' number distribution depending on the age in the secondary schools

| Participants' age | Age=11 | Age=12 | Age=13 | Age=14 | Age=15 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Number of students | 68 | 63 | 131 | 42 | 10 |

From the Table 10, there are 316 participants in the secondary schools in total. The number of participants is highest when students are 13 years old and the 15 years old students' number is lowest. The Table 11 shows the questions distribution divided by the age in the secondary schools.

Table 11: The question number distribution divided by the age in the secondary schools

| Age | Age=11 | Age=12 | Age=13 | Age=14 | Age=15 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Question number | 150 | 162 | 334 | 104 | 27 |
| Correct answer <br> number | 76 | 72 | 178 | 53 | 15 |
| Percentage of <br> correct answer | $50.7 \%$ | $44.4 \%$ | $53.3 \%$ | $51.0 \%$ | $55.6 \%$ |

Depending on the Table 11, students who are 13 years old were asked the most questions. And 15 years old students have the highest correct answer percentage and 12 years old students have the lowest correct answer percentage.

### 4.2 Results

In order to investigate the safety culture among students, the following aspects are considered: the overall correct answer percentage; the influence of the gender; the influence of the age and the influence of the school location. To be more clearly to show the effect of the gender, the age and the school location, more figures are needed depending on the upper data collection.

### 4.2.1 The overall correct answer percentage

Depending on the Table 4, more than 2000 replies were collected and among them 1298 questions had correct answers. The overall correct answer percentage is $58.4 \%$. The majority questions were answered correctly but the correct answer percentage still needs to be increased. In the primary schools the mean value of correct answer percentage is $62.6 \%$ and secondary school students' correct answer percentage is $50.7 \%$. It's shown in the Figure 17. The primary school students have higher percentage than the secondary school students because the secondary schools answered more difficult questions than the primary school students.


Figure 17: Correct answer percentage in the primary schools and the secondary schools

### 4.2.2 The influence of the gender

According to the Figure 7 and the Table 5, the male participants are more than female participants. In the primary school the number of female and male participants was almost equal, however in the secondary schools the number of male participants was more than female participants. Due to the Table 6 and 7, the male and female correct answer percentage in the primary schools is shown in the Figure 18.


Figure 18: Female and male correct answer percentage in the primary schools
In the Figure 18 the female correct answer percentage is higher than male in all schools. From School 1 to the School 3 both female and male correct answer percentage decrease and in the School 3 the female and male correct answer percentage reach the lowest point. In the School 5 the percentage increase a little. Both female and male participants get the highest correct answer percentage in the

## School 1.

Due to the Table 6, the mean value of female and male correct answer percentage can be calculated in the primary schools. The mean values of the female and male correct answer percentage in the primary schools are been shown in the Figure 19. Depending on the Figure 19 the female correct answer percentage is higher than male in the primary schools.


Figure 19: Mean correct answer percentage depending on the gender in the primary schools

Then the two secondary school students' correct answer percentage divided by the gender is shown in the Figure 20. Depending on the Figure 20, the female participants have higher correct answer percentage than male in these two schools.


Figure 20: Female and male correct answer percentage in the secondary schools

Due to the Table 7, the mean value of female and male correct answer percentage
in the secondary schools can be calculated. The mean values of the female and male correct answer percentage in the secondary schools are been shown in the Figure 21. Depending on the Figure 21 the female correct answer percentage is still higher than male.


Figure 21 Mean correct answer percentage depending on the gender in the secondary schools

Due to the Figure 19 and the Figure 21, both in the primary school and the secondary school female participants' correct answer percentage is higher than male. In the primary school male and female correct answer percentage is higher than or around $60 \%$ except male participants in the School 3, however in the secondary schools only female participants in the School 5 is higher than $60 \%$.

### 4.2.3 The influence of the age

Due to the Table 8 and Table 9, the students' correct answer percentage of all ages in the primary schools is shown in the Figure 22.


Figure 22: Correct answer percentage divided by the age in the primary schools

Depending on the Figure 22, the 8 years old students have the lowest percentage and students who are 12 years old have the highest percentage. Due to the overall trend, the older students have higher correct answer percentage.
Because the primary schools and secondary school students were asked questions of different difficulty level, the effect of age was divided into two parts: "Primary" parts and "Secondary" part. The effect of the age in the secondary schools is shown in the Figure 23 depending on the Table 11 data collected.


Figure 23: Correct answer percentage divided by age in the secondary schools

Depending on the Figure 23, the older students' correct answer percentage is higher than the younger students in the secondary schools like the primary schools. The 15 years old students have the highest percentage and the percentage reaches the lowest point when the students are 12 years old. Comparing to the Figure 22, students who are 11 and 12 years old have higher correct answer percentage in the primary schools than those students who are 11 and 12 years old in the secondary schools.

### 4.2.4 The influence of the school location

Then the effect of the school location of the primary schools and the secondary schools is analyzed. Depending on the Table 3, the School 1, the School 2, the School 3 and the School 4 are in the suburbs. The School 5 is in the city center. The different correct answer percentage between the suburban schools and city-center schools is shown in the Figure 24 (primary schools) and the Figure 25 (secondary schools) depending on the data collected in the Table 4.


Figure 24: the influence of the school location in the primary schools
Depending on the Table 4, there were 653 questions that were asked and among these 419 answers were right in the suburban primary schools. There were 792 questions that were asked and among these 485 answers were right in the city-center primary schools. Due to the Figure 23, the suburban school students' correct answer percentage is higher than the city-center schools in the primary schools.
And then the correct answer percentage depending on the school location in the secondary schools is shown in the Figure 25. Depending on the Table 4, the correct answer percentage can be calculated like the primary schools. The suburban school students' correct answer percentage is still higher than city-center schools in the secondary schools.


Figure 25: The influence of the school location in the secondary school

### 4.2.5 The influence of the age and gender at the same time

In this part the effect of the age and the gender is analyzed at the same time. The female and male participants' correct answer percentage is compared at the same age and in the same way the participants are divided into "Primary" part and "Secondary" part in the Table 12 and Table 13.

Table 12: The influence of the age and gender at the same time in the primary schools

| Age | Age=7 |  | Age=8 |  | Age=9 |  | Age=10 |  | Age=11 |  | Age=12 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | F | M | F | M | F | M | F | M | F | M | F | M |
| Number of <br> questions | 4 | 2 | 252 | 293 | 243 | 233 | 206 | 160 | 24 | 24 | 4 | 0 |
| Number of <br> correct answers | 3 | 1 | 156 | 151 | 175 | 155 | 131 | 100 | 17 | 12 | 3 | 0 |
| Percentage of <br> correct answer | $75.0 \%$ | $50.0 \%$ | $61.9 \%$ | $51.5 \%$ | $71.0 \%$ | $66.5 \%$ | $63.6 \%$ | $62.5 \%$ | $70.8 \%$ | $50.0 \%$ | $75.0 \%$ | 0 |

Depending on the collection data at the Table 12, The Figure 26 is shown about the male and female participants' correct answer percentage with the increase of the age.


Figure 26: The correct answer percentage depending on the age and gender in the primary schools

The correct answer percentage increase with the increase of the age and the female correct answer percentage is always higher than male.

Table 13: The influence of the age and gender at the same time in the secondary schools

| Age | Age=11 |  | Age=12 |  | Age=13 |  | Age=14 |  | Age=15 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Gender | F | M | F | M | F | M | F | M | F | M |
| Number of <br> questions | 68 | 72 | 62 | 100 | 173 | 161 | 47 | 57 | 6 | 21 |
| Number of correct <br> answers | 41 | 35 | 32 | 40 | 96 | 82 | 27 | 26 | 5 | 10 |
| Percentage of <br> correct answer | $60.2 \%$ | $48,6 \%$ | $51.6 \%$ | $40.0 \%$ | $55.5 \%$ | $50.9 \%$ | $57.4 \%$ | $45.6 \%$ | $85.0 \%$ | $47.6 \%$ |

The data was presented in the Figure 27 about the female and male correct answer percentage with the change of the age in the secondary schools. The correct answer percentage of female and male participants still increase with the increase of the age and female correct answer percentage is higher than male.


Figure 27: The correct answer percentage depending on the age and gender in the secondary schools

### 4.2.6 The influence of the topic

There are 5 topic questions in the primary schools and 7 topic questions in the secondary schools. The "Primary" question topics were involved in the "Secondary" question topics such as domestic risk, free sports and game, emergency, life in school and behavior and street (behavior and signals). The "Secondary" questions have additional topics that are technological risk and chemical (substances, fire and explosion). The questions are grouped into 5 topics in the primary schools that is shown in the Table 14.

Table 14: Topics in the primary schools

| Primary school |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Topic | Question number |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Domestic risk | 46 | 21 | 27 | 15 | 1 | 3 | 32 | 18 | 25 | 13 | 44 | 50 | 4 | 26 |
| Free sport, game | 39 | 43 | 38 | 34 | 41 | 40 | 33 | 10 | 5 | 45 |  |  |  |  |
| Emergency | 36 | 12 | 37 | 51 | 19 | 14 |  |  |  |  |  |  |  |  |
| Life in school and behavior | 20 | 48 | 56 | 47 | 29 | 52 | 49 | 7 | 42 | 2 | 53 | 54 |  |  |
| Street <br> (behavior <br> and <br> signals) | 23 | 35 | 30 | 22 | 28 | 16 |  |  |  |  |  |  |  |  |

The table 14 shows the number of the questions about domestic risk is the most and the number of the questions about emergency and street is the least.
The topic distribution in the primary schools and each topic correct answer percentage are shown in the Table 15.

Table 15: Correct answer percentage is divided by the topics in the primary schools

| Topic | Number of questions | Number of correct answers | Correct answer percentage |
| :---: | :---: | :---: | :---: |
| Domestic risk | 297 | 197 | $66.3 \%$ |
| Free sports, game | 323 | 183 | $56.7 \%$ |
| Emergency | 220 | 108 | $49.1 \%$ |
| Life in school and behavior | 473 | 834 | $70.6 \%$ |
| Street (behavior and signals) | 122 | $87.2 \%$ |  |

To present the correct answer percentage difference more clearly, the percentage in the primary schools is shown in the Figure 28. Depending on the Figure 28, the correct answer percentage of the topic of the life in the school is the highest and the topic of the emergency is the lowest. The safety knowledge about emergency needs to be emphasized in the safety education lessons. The correct answer percentage about the topics of domestic risk and street is almost equal.


Figure 28: Five topic correct answer percentage in the primary schools.
In the secondary schools, the questions are grouped into 7 topics that is shown in the Table 16. The first five topics are the similar with the "Primary" question topics but the difficulty level is higher than "Primary" questions. The other two topics are about technological and chemical substances. The questions are more difficult than "Primary" questions. Depending on the Table 16, the number of the questions about the emergency and basic knowledge of risk and chemical substances is the highest
and the number of the questions about street (behavior and signals) is the lowest.
Table 16: Topics in the secondary schools

| Secondary schools |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Topics | Question number |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Domestic risk | 42 | 44 | 35 | 47 | 53 | 37 | 51 |  |  |  |  |  |  |  |  |  |  |  |  |
| Free sports, game | 38 | 50 | 46 | 49 | 50 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Emergency and basic knowledge of risk | 55 | 15 | 14 | 43 | 20 | 74 | 24 | 41 | 11 | 32 | 61 | 73 | 69 | 70 | 72 | 59 | 56 | 57 |  |
| Life in school and behavior | 34 | 39 | 36 | 31 | 58 | 28 | 40 | 33 | 22 |  |  |  |  |  |  |  |  |  |  |
| Street (behavior and signals) | 54 | 48 | 45 | 71 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Technological | 23 | 64 | 66 | 65 | 68 | 63 | 16 | 17 | 30 | 62 | 29 | 67 |  |  |  |  |  |  |  |
| Chemical <br> (substances, fire, explosion) | 1 | 2 | 25 | 26 | 12 | 9 | 60 | 5 | 6 | 19 | 4 | 3 | 10 | 8 | 7 | 27 | 21 | 18 | 13 |

In the Table 17, the number of questions and correct answer percentage in the secondary schools is shown in detail. Depending on the Table 17, the questions about domestic risk have the highest correct answer percentage and the questions about chemical substances have the lowest percentage.

Table 17: Correct answer percentage is divided by the topics in the secondary schools

| Topic | Number of questions | Number of correct answers | Correct answer percentage |
| :---: | :---: | :---: | :---: |
| Domestic risk | 80 | 57 | $71.3 \%$ |
| Free sports, game | 40 | 25 | $62.5 \%$ |
| Emergency and basic |  |  |  |
| knowledge of risk | 169 | 89 | $52.7 \%$ |
| Life in school and behavior | 77 | 34 | $44.2 \%$ |
| Street (behavior and signals) | 32 |  |  |
| Technological | 140 | 83 | $84.4 \%$ |
| Chemical (substances, fire, | 239 | 104 | $59.3 \%$ |
| explosion) |  |  | $43.5 \%$ |

In order to compare each topic's correct answer percentage, the Figure 29 shows
each topic's correct answer percentage. Depending on the Figure 29, the first five topics are the same with the primary school questions' topics. Except the topic of the life in schools and behavior, the other four topics have higher correct answer percentage in the secondary schools. In the primary schools, the topic of life in schools and behavior has the highest correct answer percentage, however the topic of life in school and behavior has the lowest correct answer percentage in the secondary schools. The highest correct answer percentage in the secondary schools is higher than the highest correct answer percentage in the primary schools, comparing the Figure 28 and Figure 29. The lowest correct answer percentage in the secondary schools is lower than the lowest correct answer percentage in the primary schools.


Figure 29: Seven topics correct answer percentage in the secondary schools

### 4.2.6.1 Domestic risk

In order to know the influence of the topics better, the correct answer percentage difference depending on the gender and age is analyzed. The number of the questions about domestic risk and the number of correct answers in the primary schools divided by the gender are shown in the Table 18 and the correct answer percentage is shown in the Figure 30

Table 18: Question distribution about domestic risk in the primary schools

| Gender | Female | Male |
| :---: | :---: | :---: |
| Number of questions | 150 | 147 |
| Number of correct answers | 100 | 97 |
| Correct answer percentage | $66.7 \%$ | $66.0 \%$ |

Depending on the Table 18, the questions are distributed equally divided by the gender. The female participants have higher correct answer percentage than the
male participants. To compare the correct answer percentage difference better, the Figure 30 shows the percentage. The gap of the correct answer percentage between the male and female participants in the primary schools is $0.7 \%$.


Figure 30: Correct answer percentage of domestic risk questions divided by the gender in the primary schools

And then the correct answer percentage depending on the age will be analyzed. In the Table 19, the question about domestic risks distribution and correct answer number are shown in the Table 19. And the Figure 31 shows the correct answer percentage depending on the age.

Table 19: Question of domestic risk distribution depending on the age in the primary schools

| Age | Age=7 | Age=8 | Age=9 | Age=10 | Age=11 | Age=12 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number of <br> questions | 0 | 116 | 111 | 46 | 15 | 0 |
| Number if <br> correct answers | 0 | 70 | 68 | 29 | 10 | 0 |
| Correct answer <br> percentage | 0 | $60.3 \%$ | $61.2 \%$ | $63.0 \%$ | $66.7 \%$ |  |

Depending on the Table 19, the primary school students who are 7 and 12 years old were not asked the questions about domestic risks in the primary schools. The students who are 11 years old gave the most correct answers and the correct answer percentage increase with the increase of the age in the primary students. The results are the same with the upper part. The figure 31 shows the change trend with the age more clearly. Depending on the Figure 31, the gap of the correct answer percentage between the students who are 10 years old and 11 years old is the
biggest and the gap between the students who are 8 and 9 years old is the smallest.


Figure 31: Correct answer percentage of domestic risk divided by the age in the primary school

In the secondary schools, the question distribution divided by the gender of domestic risks is shown in the Table 20 and the Figure 30 shows the correct answer percentage divided by the gender.

Table 20: Question of domestic risk distribution depending on the gender in the secondary schools

| Gender | Female | Male |
| :---: | :---: | :---: |
| Number of questions | 30 | 50 |
| Number of correct answers | 27 | 30 |
| Correct answer percentage | $90.0 \%$ | $60.0 \%$ |

Depending on the Table 20, the female participants have higher correct answer percentage than male. The Figure 32 shows the correct answer percentage difference divided by the gender in the secondary schools about domestic risk more clearly. The gap of the correct answer percentage between the female and male participants in the secondary schools is $30 \%$. It's much bigger than the primary schools.


Figure 32: Correct answer percentage of domestic risk questions divided by the gender in the secondary schools

The question distribution divided by the age is shown in the Table 21 and the Figure 33 shows the correct answer percentage change trend with the increase of the age.

Table 21: Question of domestic risk distribution depending on the age in the secondary schools

| Age | Age=11 | Age=12 | Age=13 | Age=14 | Age=15 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Number of <br> questions | 18 | 15 | 30 | 10 | 3 |
| Number if correct <br> answers | 10 | 9 | 26 | 8 | 2 |
| Correct answer <br> percentage | $55.6 \%$ | $60.0 \%$ | $86.7 \%$ | $80.0 \%$ | $66.7 \%$ |

Depending on the Table 21, the students who are 13 years old gave the most correct answers and the students who are 11 years old got the lowest correct answer percentage. Due to the Figure 33, the correct answer percentage increase with the age in general.


Figure 33: Correct answer percentage of domestic risk divided by the age in the secondary school

### 4.2.6.2 Free sports, game

Secondly, the analysis of the questions about free sports and game will be done. In the primary schools the question distribution divided by the gender is shown in the Table 22. The correct answer percentage difference in the primary schools divided by the gender is shown in the Figure 34.The Table 22 shows the male participants have a little higher correct answer percentage than the male participants. The Figure 34 shows the percentage more clearly.

Table 22: Question of free sports and game distribution depending on the gender in the primary schools

| Gender | Female | Male |
| :---: | :---: | :---: |
| Number of questions | 160 | 163 |
| Number of correct answers | 90 | 93 |
| Correct answer percentage | $56.3 \%$ | $57.1 \%$ |



Figure 34: Correct answer percentage of free sports and game questions divided by the gender in the primary schools

Then the question distribution divided by the age in the primary schools is shown in the Table 23 and correct answer percentage is shown in the Figure 35.

Table 23: Question of free sports and game distribution depending on the age in the primary schools

| Age | Age=7 | Age=8 | Age=9 | Age=10 | Age=11 | Age=12 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number of <br> questions | 6 | 115 | 98 | 92 | 12 | 0 |
| Number if <br> correct answers | 4 | 76 | 68 | 58 | 8 | 0 |
| Correct answer <br> percentage | $66.7 \%$ | $66.1 \%$ | $69.4 \%$ | $63.0 \%$ | $66.7 \%$ | 0 |

Depending on the Table 23, the students who are 9 years old have the highest correct answer percentage about the free sports and game. The students who are 12 years old were not asked questions about free sports and game.


Figure 35: Correct answer percentage of free sports and game divided by the age in the primary schools

Then in the secondary the same analysis will be done. The Table 24 shows the questions about free sports and game distribution divided by the gender and the Figure 36 shows the correct answer percentage divided by the gender in the secondary schools.

Table 24: Question of free sports and game distribution depending on the gender in the secondary schools

| Gender | Female | Male |
| :---: | :---: | :---: |
| Number of questions | 15 | 25 |
| Number of correct answers | 10 | 15 |
| Correct answer percentage | $66.7 \%$ | $60.0 \%$ |



Figure 36: Correct answer percentage of free sports and game questions divided by the gender in the secondary schools

Depending on the Table 24 and the Figure 36, the female has higher correct answer percentage.
Then the Table 25 and the figure 37 shows the correct answer percentage divided by the age in the secondary schools about the questions of free sports and game.

Table 25: Question of free sports and game distribution depending on the age in the secondary schools

| Age | Age=11 | Age=12 | Age=13 | Age=14 | Age=15 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Number of <br> questions | 12 | 10 | 20 | 6 | 2 |
| Number if correct <br> answers | 4 | 4 | 15 | 4 | 2 |
| Correct answer <br> percentage | $33.3 \%$ | $40.0 \%$ | $75 \%$ | $66.7 \%$ |  |



Figure 37: Correct answer percentage divided by the age in the secondary schools

Due to the Table 25 and the Figure 37, the correct answer percentage increase with the age increasing. The students who are 15 years old has the highest percentage and the students who are 11 years old has the lowest correct answer percentage.

### 4.2.6.3 Emergency

Thirdly, the topic of emergency will be analyzed. In the primary schools, the question distribution about emergency is shown in the Table 26 and the Figure 38 shows the gender division.

Table 26: Question of emergency distribution depending on the gender in the primary schools

| Gender | Female | Male |
| :---: | :---: | :---: |
| Number of questions | 112 | 108 |
| Number of correct answers | 58 | 50 |
| Correct answer percentage | $51.7 \%$ | $46.3 \%$ |



Figure 38: Correct answer percentage of emergency questions divided by the gender in the primary schools

Depending on the Table 26 and the Figure 38, the questions about emergency are almost distributed equally between the female and male participants and the correct answer percentage of female participants is higher than the male participants. Then the question distribution divided by the age is shown in the Table 27 and the correct answer percentage about emergency of each age in the primary schools is shown in the Figure 39.

Table 27: Question of emergency distribution depending on the age in the primary schools

| Age | Age=7 | Age=8 | Age=9 | Age=10 | Age=11 | Age=12 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number of <br> questions | 0 | 78 | 65 | 66 | 7 | 4 |
| Number if <br> correct answers | 0 | 42 | 38 | 38 | 4 | 3 |
| Correct answer <br> percentage | 0 | $53.8 \%$ | $58.4 \%$ | $57.6 \%$ | $57.1 \%$ | $75 \%$ |



Figure 39: Correct answer percentage of emergency divided by the age in the primary schools

Depending on the Table 27 and the Figure 39, the students who are 12 years old has the highest correct answer percentage and the students who are 8 years old gave the lowest correct answer. The correct answer percentage increase with age. In the secondary the Table 28 shows the question distribution and the Figure 40 shows the correct answer percentage divided by the gender.

Table 28: Question of emergency distribution depending on the gender in the secondary schools

| Gender | Female | Male |
| :--- | :--- | :--- |
| Number of questions | 69 | 100 |
| Number of correct answers | 40 | 49 |
| Correct answer percentage | $58.0 \%$ | $49.0 \%$ |



Figure 40: Correct answer percentage of emergency questions divided by the gender in the secondary schools

Due to the Table 28 and the Figure 40, the female correct answer percentage is higher than male and the male participants answered more questions about emergency.
For the age effect the Table 29 and the Figure 41 shows the question distribution and correct answer percentage about emergency divided by the age in the secondary schools. The students who are 15 years old have the highest correct answer percentage and the students who are 11 years old have the lowest correct answer percentage.

Table 29: Question of emergency distribution depending on the age in the secondary schools

| Age | Age=11 | Age=12 | Age=13 | Age=14 | Age=15 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Number of <br> questions | 30 | 32 | 56 | 41 | 4 |
| Number if correct <br> answers | 10 | 12 | 32 | 30 | 3 |
| Correct answer <br> percentage | $33.3 \%$ | $37.5 \%$ | $57.1 \%$ | $73.2 \%$ | $75 \%$ |



Figure 41: Correct answer percentage of emergency divided by the age in the secondary schools

### 4.2.6.4 Life in school and behavior

The questions about life in school and behavior are analyzed divided by the gender and the age in the primary schools and secondary schools respectively. The Table 30 and the Figure 42 shows the question distribution and correct answer percentage divided by the gender in the primary schools.

Table 30: Question of life in school and behavior distribution depending on the age in the primary schools

| Gender | Female | Male |
| :---: | :---: | :---: |
| Number of questions | 235 | 238 |
| Number of correct answers | 170 | 166 |
| Correct answer percentage | $72.3 \%$ | $69.7 \%$ |

Depending on the Table 30 and Figure 32, the questions are distributed equally between female and male participants and the female participants have more correct answers.


Figure 42: Correct answer percentage divided by the age in the primary schools

The questions about life in school and behavior distribution and correct answer percentage divided by the age in the primary schools are shown in the Table 31 and Figure 43. The students who are 9 years old have the highest correct answer percentage and the students who are 10 years old have the lowest correct answer percentage.

Table 31: Question of life in school and behavior distribution depending on the age in the primary schools

| Age | Age=7 | Age=8 | Age=9 | Age=10 | Age=11 | Age=12 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number of <br> questions | 0 | 172 | 147 | 142 | 12 | 0 |
| Number if |  |  |  |  |  |  |
| correct answers |  |  |  |  |  |  |



Figure 43: Correct answer percentage of life in school and behavior divided by the age in the primary schools

In the secondary schools the question distribution about life in school and behavior and correct answer percentage divided by the gender are shown in the Table 32 and the Figure 44.

Table 32: Question of life in school and behavior distribution depending on the gender in the secondary schools

| Gender | Female | Male |
| :---: | :---: | :---: |
| Number of questions | 30 | 47 |
| Number of correct answers | 15 | 19 |
| Correct answer percentage | $50.0 \%$ | $40.4 \%$ |



Figure 44: Correct answer percentage divided by the age in the secondary schools

The female participants gave more correct answers than male. The Table 33 and the Figure 45 show the question distribution and correct answer percentage divided by the age in the secondary schools.

Table 33: Question of life in school and behavior distribution depending on the age in the secondary schools

| Age | Age=11 | Age=12 | Age=13 | Age=14 | Age=15 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Number of <br> questions | 17 | 16 | 29 | 12 | 3 |
| Number if correct <br> answers | 7 | 8 | 16 | 7 | 2 |
| Correct answer <br> percentage | $41.2 \%$ | $50.0 \%$ | $55.2 \%$ | $58.3 \%$ | $66.7 \%$ |



Figure 45: Correct answer percentage divided by the age in the secondary schools

The students who are 15 years old have the highest correct answer percentage and the students who are 11 years old have the lowest correct answer percentage. The correct answer percentage increase with the age.

### 4.2.6.5 Street (behavior and signals)

In order to analyze the influence of the topic of the street (behavior and signals), the Table 34 and the Figure 46 show the question distribution and correct answer percentage divided by the gender in the primary schools.

Table 34: Question of street (behavior and signals) distribution depending on the gender in the primary schools

| Gender | Female | Male |
| :---: | :---: | :---: |
| Number of questions | 75 | 57 |
| Number of correct answers | 61 | 21 |
| Correct answer percentage | $81.3 \%$ | $36.8 \%$ |



Figure 46: Correct answer percentage of street (behavior and signals) divided by the age in the primary schools

Table 35: Question of street (behavior and signals) distribution depending on the age in the primary schools

| Age | Age=7 | Age=8 | Age=9 | Age=10 | Age=11 | Age=12 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number of <br> questions | 0 | 64 | 55 | 2 | 1 | 0 |
| Number if <br> correct <br> answers | 0 | 42 | 37 | 2 | 1 | 0 |
| Correct answer <br> percentage | 0 | $65.6 \%$ | $67.3 \%$ | $100.0 \%$ | $100.0 \%$ | 0 |

The female participants' correct answer percentage is higher than male participants and the Table 35 and the Figure 47 show the effect of the age in the primary schools


Figure 47: Correct answer percentage of street (behavior and signals) divided by the age in the primary schools

The students who are 10 and 11 years old have the highest correct answer percentage and the students who are 8 years old have the least correct answer percentage. In secondary schools, the Table 36 and the Figure 38 show the effect of the gender in the secondary schools.

Table 36: Question of street (behavior and signals) distribution depending on the gender in the secondary schools

| Gender | Female | Male |
| :---: | :---: | :---: |
| Number of questions | 16 | 16 |
| Number of correct answers | 14 | 13 |
| Correct answer percentage | $87.5 \%$ | $81.3 \%$ |



Figure 48: Correct answer percentage divided by the gender in the secondary

The female participants gave more correct answer than male participants like others. In order to analyze the effect of age, the Table 37 and the Figure 49 shows the question distribution and correct answer percentage divided by the age in the secondary schools.

Table 37: Question of street (behavior and signals) distribution depending on the age in the secondary schools

| Age | Age=11 | Age=12 | Age=13 | Age=14 | Age=15 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Number of <br> questions | 5 | 5 | 18 | 3 | 1 |
| Number if correct <br> answers | 2 | 3 | 14 | 2 | 1 |
| Correct answer <br> percentage | $40.0 \%$ | $60.0 \%$ | $77.8 \%$ | $66.7 \%$ | $1 \%$ |



Figure 49: Correct answer percentage of street (behavior and signals) divided by the age in the secondary schools

The students who are 15 years old students have much higher correct than the students who are 11 years old. In general, the correct answer percentage increase with the age.

### 4.2.3.6 Technological

The table 38 and the Figure 50 show the effect of the gender for the topic of technological. This topic was only used in the secondary schools.

Table 38: Question of technological distribution depending on the gender in the secondary schools

| Gender | Female | Male |
| :---: | :---: | :---: |
| Number of questions | 70 | 70 |
| Number of correct answers | 40 | 43 |
| Correct answer percentage | $57.1 \%$ | $61.4 \%$ |



Figure 50: Correct answer percentage of technological divided by the age in the secondary schools

Table 39: Question of technological distribution depending on the age in the secondary schools

| Age | Age=11 | Age=12 | Age=13 | Age=14 | Age=15 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Number of <br> questions | 30 | 28 | 48 | 28 | 6 |
| Number if correct <br> answers | 9 | 16 | 32 | 22 | 4 |
| Correct answer <br> percentage | $30.0 \%$ | $57.1 \%$ | $66.7 \%$ | $78.6 \%$ | $66.7 \%$ |

For this part the female participants have lower correct answer percentage than male. The Table 39 and the Figure 51 show the effect of age in the secondary schools.


Figure 51: Correct answer percentage of technological divided by the age in the secondary school

The students who are 14 years old have the highest correct answer percentage and the students who are 11 years old have the lowest correct answer percentage. Although the 15 years old students' correct answer percentage is lower than 14 years old students, the correct answer percentage increase with the age as a whole.

### 4.2.3.7 Chemical (substances, fire and explosion)

Table 40: Question of chemical (substances, fire and explosion distribution) depending on the gender in the secondary schools

| Gender | Female | Male |
| :---: | :---: | :---: |
| Number of questions | 104 | 135 |
| Number of correct answers | 45 | 59 |
| Correct answer percentage | $43.3 \%$ | 43.7 |



Figure 52: Correct answer percentage of technological divided by the gender in the secondary schools

The Table 40 and the Figure 52 show the effect of gender for the question of chemical. Depending on the Table 40, the male participants answer more questions than female participants The male participants have more correct answers than female participants.

Table 41: Question of chemical (substances, fire and explosion) distribution depending on the age in the secondary schools

| Age | Age=11 | Age=12 | Age=13 | Age=14 | Age=15 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Number <br> questions | 38 | 56 | 133 | 4 | 8 |
| Number if correct <br> answers | 17 | 22 | 68 | 3 | 4 |
| Correct answer <br> percentage | $44.7 \%$ | $36.3 \%$ | $51.1 \%$ | $75.0 \%$ | $50.0 \%$ |

The Table 41 shows the question distribution divided by the age in the secondary schools and the Figure 53 shows the correct answer percentage divided by the age.


Figure 53: Correct answer percentage divided by the age in the secondary schools
The students who are 14 years old have the highest correct answer percentage and the students who are 12 years old have the lowest correct answer percentage. In a word, in the most cases the female participants have higher correct answer percentage than male and the correct answer percentage increase with the age.

## 5. DISCUSSION

According to the data collected, the correct answer percentage can be calculated and the difference of percentage between different age, gender and schools is compared. According to the figures in the thesis, non-negligible difference exists between different ages, gender and schools' locations. In the aspect of the gender, the female participants have higher correct answer percentage than the male. Due to the effect of the school location, the students in the suburban schools have higher safety knowledge than the city canter school students. For the effect of the age of the students, the older students have more safety knowledge. In the following the effect of each element on the safety awareness of the students is discussed and the gender gap with the increase of the age of the students will be further analyzed.

### 5.1 The effect of the gender

The correct answer percentage depending on the gender is analyzed. In order to verify the conclusion, students were divided into two categories (primary school students and secondary school students). And female correct answer percentage was compared with male correct answer percentage in primary and secondary schools respectively. The data shows female participants showed a more in-depth safety knowledge than male. These analysis results from the test underline that the population know the basis of the safety knowledge but the level needs to be increased to reach a sufficient quality and diffusion of knowledge for all students. Depending on the Figure 26, the gender gap in the primary schools with the change of the age was shown in the Figure 54. It shows the gender gap in the primary schools. The gender gap is the female correct answer percentage minus male correct answer percentage. It represents how the gender affects the correct answer percentage with the increase of the age.


Figure 54: Gender gap in the primary schools

In the primary schools the gender gap reaches the lowest point when students are 10 years old. Depending on the Figure 27, the gender gap in the secondary schools with the change of the age is shown in the Figure 55.


Figure 55: Gender gap in the secondary schools
In the secondary schools the gender gap is smallest when students are 13 years old. The gender gap reaches the highest point when the students are 15 years old.

### 5.2 The effect of the age

The difference of students' safety awareness level on the effect of age is compared and in the "Primary" part, the mean value of safety knowledge is higher than "Secondary" part because the primary school students were asked more difficult questions than the secondary school students. The Figure 56 and the Figure 57 represent the primary school and secondary school student correct answer percentage change with the increase of the age respectively.


Figure 56: The effect of the age on the correct answer percentage in the primary schools


Figure 57: The effect of the age on the correct answer percentage in the secondary schools

In the primary schools the highest correct answer percentage is obtained when the students are 12 years old and the lowest point is achieved when the students are 8 years old. In the secondary schools the students who are 15 years old have the highest correct answer percentage and the students who are 12 years old have the lowest correct answer percentage. In the primary schools and secondary schools, the percentage increase with the age.
The primary school students' mean correct answer percentage is higher than the secondary school students. This result may prove that the schools and parents pay more and more attention to safety education and infuse safety awareness from childhood for children. The primary schools have more activities to develop safety awareness. More children are aware of the importance of the safety and trend to behavior right and safely. With more activities about safety are conducted in the schools, the trend increase. In the primary schools and the secondary schools, the older participants gave more correct answers than the younger ones. The older students have more safety knowledge than the younger.

### 5.3 The effect of the school location

There are four schools are in the suburbs and one school is in the city center in the five schools. In the Primary schools the students in the outskirts gave more correct answers than in the city center. And the secondary schools have a similar result. The suburban schools have higher correct answer percentage than the city-center schools in this thesis. The Figure 58 shows the effect of the school location in the primary schools and the the Figure 59 shows the effect of the location in the secondary schools.


Figure 58: School location effect in the primary schools


Figure 59: School location effect in the secondary schools
The suburban school students have more safety knowledge than the city-center school students. Maybe in the suburban schools the students pay more attention to the safety problems and the teachers focus more on the safety awareness education. The correct answer percentage of the primary schools is higher than the secondary schools. The secondary school students have lower correct answer percentage because the "Secondary" questions which were used in the secondary schools are more difficult. Depending on the Table 4, in the primary schools, the gap of the correct answer percentage between the suburban schools and city-center schools is $3 \%$ (the correct answer percentage of the suburban schools minus the correct answer percentage of the city-center schools) and it is $1.9 \%$ in the secondary schools. The gap due to the school location is bigger in the primary schools than the secondary schools.

## 6. SUGGESTIONS OF IMPROVING SAFETY AWARENESS

As described by this thesis, the increase of the safety awareness is very important for students' developing. More methods will be used and more and more efforts are made to promote safety education. This part will propose some ways to improve safety awareness.

### 6.1 Strengthen the construction of teachers

If teachers update and innovate safety education methods continuously, students would acquire more safety knowledge. Strengthen the construction of teachers to meet the requirements of school safety education. Teachers should know laws, regulations and important principle well to ensure the quality of safety education and they understand modern teaching strategies. The schools should hold lectures on safety education for teachers or organize safety training activities to communicate, learn and strengthen the theoretical safety teaching. The lectures should be hold at regular intervals about safety education and the methods to improve safety awareness of the students.

### 6.2 Carry out safety awareness education activities

The related textbooks, courses, practices and examinations should be appeared in schools. The schools should use network platform to strengthen propaganda. We should build related website to let students know more cases through online publicity. Learning more knowledge can help improve the safety consciousness of students. The schools should start projects about safety every four months. For example, a competition about safety knowledge can be held, each class choose 10 students to form a group and the class that gives the most correct answers will acquire rewards. The safety knowledge that is taught in class is put into practice to ensure that students can respond effectively in life.

### 6.3 Involve parents, family and community members

Parents and family members are vital members of the school community. If everyone conveys the same message about education, the students can get that message. Parents and family members should collaborate to supervise students' behaviour. For example, the parents and the teachers make an appointment if possible. In the meeting, parents should communicate with the teachers about the children's behavior in home and the teachers make some suggestions to correct the students' incorrect behaviour. Parents and family members regulate their own behavior and set an example for their children.

## 7. CONCLUSION

This thesis presents the data on the safety knowledge addressed a sample of Turin students, which were tested through the participation to a simple game. Each participant was asked questions randomly and the participants can compete in groups, Through the thesis the level of safety awareness of students and more information about students' safety culture can be shown. Depending on these questions the overall condition of these five schools and which aspect of safety knowledge is the weakness of these students is shown. And teachers can carry out a targeted teaching about safety in the safety education lessons for students.
The difference between different schools can be compared and the elements of affecting the safety awareness level can be investigated. Depending on this thesis, the following conclusions can be obtained.
In the primary schools and secondary schools, the female participants have more safety knowledge percentage, In the primary schools the 10 years old students have the smallest gender gap. In the secondary schools the 13 years old students have the smallest gender gap.
In the primary and secondary schools, with the increase of the age of the students, the correct answer percentage also increase. The older students have more safety knowledge.
In the primary schools and the secondary schools, the suburban school students have higher correct answer percentage than city-center school students. The primary school students have higher correct answer percentage than the secondary school students because of simpler questions are used in the primary schools.

In the primary schools the students gave the least correct answer percentage of the questions of the topic about emergency. The topic about life in school and behavior has the highest correct answer percentage. In the secondary schools the topic about life in the schools and behavior has the lowest correct answer percentage and the topic about the street (behavior and signals) has the highest correct answer percentage.
These analysis results from the test underline that the population know the basis of the safety knowledge but the level needs to be increased to reach a sufficient quality and diffusion of knowledge for all students.
Student safety education should be implemented according to the learning situation of students. Safety education plays an important role in improving students' safety consciousness. Not only teachers but also the students' parents pay more attention the safety education. The teachers and the parents improve their safety knowledge and education methods. They set examples to the students and the students can imitate their actions.

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## 9. Annex

School 1:

| PARTICIPANT | AGE | GENDER | QUESTION | ANSWER | QUESTION | ANSWER | QUESTION | ANSWER |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 9 | F | 33 | YES | 20 | YES | 12 | YES |
| 2 | 10 | M | 49 | YES | 13 | YES | 40 | NO |
| 3 | 9 | F | 3 | YES | 27 | YES | 44 | NO |
| 4 | 9 | F | 26 | YES | 8 | NO |  |  |
| 5 | 9 | M | 52 | YES | 42 | NO |  |  |
| 6 | 9 | M | 28 | YES | 47 | YES |  |  |
| 7 | 9 | F | 9 | YES | 21 | NO |  |  |
| 8 | 9 | M | 1 | NO | 7 | YES |  |  |
| 9 | 9 | M | 47 | YES | 16 | YES |  |  |
| 10 | 9 | F | 36 | YES | 10 | YES |  |  |
| 11 | 9 | M | 33 | YES | 5 | NO |  |  |
| 12 | 9 | F | 49 | YES | 41 | YES |  |  |
| 13 | 9 | F | 8 | YES | 6 | NO |  |  |
| 14 | 10 | F | 30 | YES | 29 | YES |  |  |
| 15 | 9 | M | 42 | YES | 2 | YES |  |  |
| 16 | 9 | M | 12 | YES | 45 | YES |  |  |
| 17 | 9 | F | 18 | YES | 40 | NO |  |  |
| 18 | 9 | F | 7 | NO | 23 | NO |  |  |


| PARTICIPANT | AGE | GENDER | QUESTION | ANSWER | QUESTION | ANSWER | QUESTION | ANSWER |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 8 | F | 37 | YES | 10 | NO |  |  |
| 2 | 8 | M | 42 | NO | 44 | YES |  |  |
| 3 | 8 | F | 38 | NO | 9 | YES |  |  |
| 4 | 8 | M | 33 | YES | 19 | NO |  |  |
| 5 | 8 | F | 15 | YES | 49 | NO |  |  |
| 6 | 8 | M | 25 | YES | 8 | YES |  |  |
| 7 | 8 | F | 3 | NO | 1 | YES |  |  |
| 8 | 8 | F | 7 | YES | 32 | YES | 51 | YES |
| 9 | 8 | M | 14 | NO | 39 | YES | 10 | NO |
| 10 | 8 | M | 12 | YES | 53 | NO |  |  |
| 11 | 8 | F | 48 | YES | 20 | YES |  |  |
| 12 | 8 | M | 21 | YES | 5 | NO |  |  |
| 13 | 8 | M | 13 | NO | 36 | NO |  |  |
| 14 | 8 | M | 42 | YES | 52 | YES | 2 | NO |
| 15 | 8 | M | 9 | YES | 5 | NO | 37 | NO |
| 16 | 8 | M | 16 | NO | 41 | YES | 19 | YES |
| 17 | 8 | F | 35 | YES | 22 | YES | 45 | YES |
| 18 | 8 | F | 38 | YES | 18 | NO | 44 | NO |
| 19 | 8 | F | 14 | NO | 23 | YES | 43 | YES |


| PARTICIPANT | AGE | GENDER | QUESTION | ANSWER | QUESTION | ANSWER | QUESTION | ANSWER |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 9 | M | 39 | NO | 48 | YES | 52 | YES |
| 2 | 10 | F | 33 | YES | 20 | NO | 5 | NO |
| 3 | 10 | M | 15 | NO | 13 | YES | 16 | NO |
| 4 | 9 | F | 21 | NO | 49 | NO |  |  |
| 5 | 9 | F | 36 | YES | 3 | NO |  |  |
| 6 | 9 | F | 8 | YES | 1 | NO |  |  |
| 7 | 9 | F | 7 | NO | 22 | YES |  |  |
| 8 | 9 | F | 41 | YES | 40 | YES | 49 | YES |
| 9 | 9 | F | 6 | NO | 52 | YES | 14 | YES |
| 10 | 9 | F | 18 | NO | 12 | YES | 45 | NO |
| 11 | 10 | F | 10 | YES | 23 | NO |  |  |
| 12 | 10 | M | 42 | YES | 4 | NO |  |  |
| 13 | 9 | M | 33 | YES | 37 | NO |  |  |
| 14 | 9 | M | 38 | YES | 2 | NO |  |  |
| 15 | 9 | M | 15 | YES | 19 | NO | 27 | NO |
| 16 | 9 | M | 8 | NO | 44 | YES | 20 | YES |
| 17 | 9 | M | 7 | NO | 39 | YES | 5 | NO |
| 18 | 9 | F | 3 | YES | 40 | YES | 33 | YES |
| 19 | 10 | M | 12 | YES | 41 | YES | 6 | YES |
| 20 | 9 | M | 10 | NO | 1 | YES | 49 | YES |
| 21 | 9 | M | 48 | YES | 42 | NO | 13 | YES |

School 2:

| PARTICIPANT | AGE | GENDER | QUESTION | ANSWER | QUESTION | ANSWER |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 8 | F | 3 | YES | 33 | YES |
| 2 | 8 | M | 2 | YES | 6 | YES |
| 3 | 8 | F | 42 | NO | 54 | YES |
| 4 | 8 | M | 38 | YES | 52 | YES |
| 5 | 9 | F | 14 | NO | 1 | YES |
| 6 | 8 | M | 15 | NO | 49 | YES |
| 7 | 8 | M | 7 | YES | 37 | YES |
| 8 | 8 | F | 13 | NO | 41 | NO |
| 9 | 8 | F | 16 | NO | 45 | YES |
| 10 | 8 | M | 48 | YES | 28 | YES |
| 11 | 8 | M | 5 | NO | 44 | YES |
| 12 | 8 | F | 8 | YES | 12 | YES |
| 13 | 8 | F | 40 | NO | 52 | YES |
| 14 | 8 | F | 10 | YES | 33 | YES |
| 15 | 8 | F | 3 | NO | 42 | YES |
| 16 | 8 | M | 6 | YES | 38 | NO |
| 17 | 9 | M | 19 | YES | 49 | YES |
| 18 | 8 | F | 53 | YES | 20 | YES |
| 19 | 8 | M | 7 | YES | 2 | YES |


| PARTICIPANT | AGE | GENDER | QUESTION | ANSWER | QUESTION | ANSWER | QUESTION | ANSWER |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 9 | F | 13 | NO | 42 | YES | 38 | YES |
| 2 | 8 | F | 5 | NO | 7 | NO |  |  |
| 3 | 8 | F | 16 | YES | 49 | YES |  |  |
| 4 | 9 | F | 46 | YES | 53 | YES |  |  |
| 5 | 9 | M | 18 | NO | 32 | NO |  |  |
| 6 | 8 | M | 19 | YES | 52 | YES |  |  |
| 7 | 8 | M | 8 | YES | 14 | NO |  |  |
| 8 | 8 | F | 21 | YES | 12 | YES |  |  |
| 9 | 8 | M | 40 | NO | 15 | NO |  |  |
| 10 | 8 | F | 10 | YES | 33 | YES |  |  |
| 11 | 9 | F | 24 | YES | 36 | YES |  |  |
| 12 | 7 | M | 42 | NO | 44 | YES |  |  |
| 13 | 8 | F | 30 | YES | 50 | YES |  |  |
| 14 | 8 | M | 7 | YES | 49 | NO |  |  |
| 15 | 9 | F | 8 | YES | 41 | YES |  |  |
| 16 | 7 | F | 12 | YES | 22 | YES |  |  |
| 17 | 8 | F | 13 | NO | 9 | YES |  |  |
| 18 | 8 | F | 43 | YES | 40 | NO |  |  |
| 19 | 7 | F | 16 | YES | 23 | NO |  |  |
| 20 | 8 | M | 10 | NO | 39 | NO |  |  |


| PARTICIPANT | AGE | GENDER | QUESTION | ANSWER | QUESTION | ANSWER |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 8 | F | 3 | YES | 33 | YES |
| 2 | 8 | M | 2 | YES | 6 | YES |
| 3 | 8 | F | 42 | NO | 54 | YES |
| 4 | 8 | M | 38 | YES | 52 | YES |
| 5 | 9 | F | 14 | NO | 1 | YES |
| 6 | 8 | M | 15 | NO | 49 | YES |
| 7 | 8 | M | 7 | YES | 37 | YES |
| 8 | 8 | F | 13 | NO | 41 | NO |
| 9 | 8 | F | 16 | NO | 45 | YES |
| 10 | 8 | M | 48 | YES | 28 | YES |
| 11 | 8 | M | 5 | NO | 44 | YES |
| 12 | 8 | F | 8 | YES | 12 | YES |
| 13 | 8 | F | 40 | NO | 52 | YES |
| 14 | 8 | F | 10 | YES | 33 | YES |
| 15 | 8 | F | 3 | NO | 42 | YES |
| 16 | 8 | M | 6 | YES | 38 | NO |
| 17 | 9 | M | 19 | YES | 49 | YES |
| 18 | 8 | F | 53 | YES | 20 | YES |
| 19 | 8 | M | 7 | YES | 2 | YES |

School 3:

| PARTICIPANT | AGE | GENDER | QUESTION | ANSWERR | QUESTION | ANSWER |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 8 | F | 34 | YES | 33 | NO |
| 2 | 8 | M | 27 | NO | 40 | NO |
| 3 | 8 | F | 15 | YES | 7 | YES |
| 4 | 9 | M | 44 | YES | 45 | NO |
| 5 | 8 | F | 5 | YES | 41 | YES |
| 6 | 8 | M | 35 | NO | 16 | NO |
| 7 | 8 | F | 8 | NO | 36 | NO |
| 8 | 8 | M | 22 | NO | 49 | NO |
| 9 | 9 | F | 56 | NO | 3 | YES |
| 10 | 8 | M | 43 | YES | 29 | NO |
| 11 | 8 | F | 46 | NO | 6 | NO |
| 12 | 8 | M | 2 | YES | 47 | YES |
| 13 | 8 | F | 32 | NO | 12 | YES |
| 14 | 8 | M | 23 | NO | 42 | NO |
| 15 | 8 | M | 37 | NO | 13 | NO |
| 16 | 8 | M | 21 | NO | 1 | NO |
| 17 | 8 | M | 30 | NO | 48 | NO |
| 18 | 9 | F | 39 | NO | 52 | NO |
| 19 | 8 | M | 10 | NO | 14 | YES |
| 20 | 8 | F | 19 | YES | 9 | NO |
| 21 | 8 | M | 33 | YES | 15 | YES |
| 22 | 8 | F | 40 | YES | 41 | YES |
| 23 | 9 | M | 7 | NO | 16 | YES |
|  |  |  |  |  |  |  |
| PARTICIPANT | AGE | GENDER | QUESTION | ANSWER | QUESTION | ANSWER |
| 1 | 9 | F | 18 | NO | 44 | YES |
| 2 | 9 | M | 19 | NO | 49 | NO |
| 3 | 9 | F | 20 | NO | 30 | YES |
| 4 | 10 | F | 21 | NO | 53 | YES |
| 5 | 9 | M | 22 | NO | 38 | YES |
| 6 | 9 | M | 23 | NO | 33 | YES |
| 7 | 9 | F | 24 | NO | 45 | NO |
| 8 | 10 | F | 25 | NO | 14 | NO |
| 9 | 9 | F | 26 | NO | 46 | YES |
| 10 | 9 | F | 27 | NO | 14 | NO |
| 11 | 10 | F | 28 | NO | 8 | NO |
| 12 | 9 | M | 29 | NO | 44 | NO |
| 13 | 11 | F | 30 | NO | 4 | YES |
| 14 | 9 | M | 31 | NO | 26 | YES |
| 15 | 11 | M | 32 | NO | 13 | YES |
| 16 | 9 | F | 33 | NO | 10 | NO |
| 17 | 9 | F | 34 | NO | 16 | YES |
| 18 | 9 | F | 35 | NO | 42 | NO |
| 19 | 9 | M | 36 | NO | 7 | YES |
| 20 | 9 | F | 37 | NO | 1 | YES |
| 21 | 9 | M | 38 | NO | 18 | NO |
| 22 | 9 | M | 39 | NO | 6 | NO |
| 23 | 9 | M | 40 | NO | 9 | YES |
| 24 | 9 | M | 41 | NO | 44 | NO |
| 25 | 9 | F | 42 | NO | 2 | YES |


| PARTICIPANT | AGE | GENDER | QUESTION | ANSWER | QUESTION | ANSWER |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 10 | F | B56 | YES | B6 | NO |
| 2 | 10 | F | B54 | YES | B2 | NO |
| 3 | 10 | F | B42 | YES | B1 | YES |
| 4 | 12 | F | B27 | YES | B7 | NO |
| 5 | 10 | F | B4 | NO | B45 | YES |
| 6 | 10 | M | B46 | YES | B47 | YES |
| 7 | 10 | F | B49 | NO | B8 | YES |
| 8 | 10 | M | B43 | YES | B44 | YES |
| 9 | 11 | F | B23 | NO | B40 | YES |
| 10 | 11 | M | B14 | NO | B5 | YES |
| 11 | 10 | F | B12 | YES | B37 | YES |
| 12 | 10 | F | B3 | NO | B15 | YES |
| 13 | 11 | M | B18 | NO | B41 | NO |
| 14 | 11 | F | B9 | YES | B10 | YES |
| 15 | 10 | F | B33 | YES | B21 | NO |
| 16 | 10 | F | B32 | NO | B30 | YES |
| 17 | 11 | F | B40 | NO | B16 | YES |
| 18 | 10 | F | B39 | YES | B6 | YES |


| PARTICIPANT | AGE | GENDER | QUESTION | ANSWER | QUESTION | ANSWER |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 10 | M | 5 | YES | 8 | YES |
| 2 | 10 | F | 6 | YES | 9 | NO |
| 3 | 9 | M | 7 | YES | 10 | YES |
| 4 | 9 | F | 8 | YES | 11 | YES |
| 5 | 10 | M | 9 | NO | 12 | YES |
| 6 | 9 | F | 10 | YES | 13 | YES |
| 7 | 10 | M | 11 | YES | 14 | YES |
| 8 | 9 | F | 12 | YES | 15 | YES |
| 9 | 9 | M | 13 | YES | 16 | YES |
| 10 | 9 | F | 14 | YES | 17 | YES |
| 11 | 9 | F | 15 | NO | 18 | NO |
| 12 | 9 | M | 16 | YES | 19 | YES |
| 13 | 9 | F | 17 | YES | 20 | YES |
| 14 | 9 | M | 18 | NO | 21 | NO |
| 15 | 9 | M | 19 | YES | 22 | NO |
| 16 | 9 | F | 20 | YES | 23 | NO |
| 17 | 9 | M | 21 | YES | 24 | YES |
| 18 | 10 | F | 22 | YES | 25 | NO |
| 19 | 9 | M | 23 | YES | 26 | YES |
| 20 | 9 | F | 24 | YES | 27 | YES |
| 21 | 9 | F | 25 | YES | 28 | NO |
| 22 | 10 | M | 26 | YES | 29 | YES |


| PARTICIPANT | AGE | GENDER | QUESTION | ANSWER | QUESTION | ANSWER |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 11 | M | B6 | YES | B7 | YES |
| 2 | 10 | F | B7 | YES | B54 | NO |
| 3 | 10 | M | B8 | NO | B2 | NO |
| 4 | 10 | F | B9 | YES | B1 | NO |
| 5 | 10 | M | B10 | YES | B45 | YES |
| 6 | 10 | F | B11 | YES | B28 | YES |
| 7 | 12 | F | B12 | YES | B48 | YES |
| 8 | 10 | M | B13 | YES | B19 | YES |
| 9 | 10 | M | B14 | NO | B5 | YES |
| 10 | 10 | F | B15 | YES | B38 | YES |
| 11 | 10 | M | B16 | NO | B9 | YES |
| 12 | 10 | F | B17 | NO | B33 | YES |
| 13 | 11 | M | B18 | YES | B51 | YES |
| 14 | 10 | M | B19 | YES | B54 | YES |
| 15 | 11 | M | B20 | YES | B14 | NO |
| 16 | 11 | F | B21 | NO | B7 | NO |
| 17 | 11 | M | B22 | YES | B8 | YES |
| 18 | 10 | F | B23 | NO | B1 | YES |
| 19 | 11 | M | B24 | YES | B42 | YES |
| 20 | 11 | F | B25 | NO | B10 | NO |
| 21 | 11 | F | B26 | NO | B27 | YES |


| PARTICIPANT | AGE | GENDER | QUESTION | ANSWER | QUESTION | ANSWER | QUESTION | ANSWER |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 8 | M | 48 | YES | 3 | YES | 8 | YES |
| 2 | 9 | F | 29 | YES | 16 | YES | 12 | YES |
| 3 | 8 | M | 33 | YES | 10 | NO | 53 | NO |
| 4 | 8 | F | 42 | YES | 19 | YES |  |  |
| 5 | 9 | M | 57 | NO | 49 | NO |  |  |
| 6 | 8 | M | 7 | NO | 52 | YES |  |  |
| 7 | 8 | M | 35 | YES | 38 | YES |  |  |
| 8 | 8 | F | 20 | YES | 21 | YES |  |  |
| 9 | 9 | M | 40 | YES | 6 | YES |  |  |
| 10 | 8 | F | 36 | YES | 9 | YES |  |  |
| 11 | 8 | M | 21 | YES | 10 | YES |  |  |
| 12 | 9 | F | 14 | NO | 33 | YES | 2 | NO |
| 13 | 8 | F | 46 | YES | 42 | YES |  |  |
| 14 | 8 | F | 43 | YES | 49 | NO |  |  |
| 15 | 8 | F | 23 | YES | 7 | YES |  |  |
| 16 | 9 | M | 27 | NO | 46 | NO |  |  |
| 17 | 8 | M | 8 | YES | 47 | YES |  |  |
| 18 | 8 | M | 15 | NO | 32 | NO |  |  |
| 19 | 9 | M | 37 | YES | 41 | YES |  |  |
| 20 | 8 | F | 16 | YES | 40 | NO |  |  |


| PARTICIPANT | AGE | GENDER | QUESTION | ANSWER | QUESTION | ANSWER | QUESTION | ANSWER |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 9 | M | 6 | NO | 8 | YES | 28 | NO |
| 2 | 9 | F | 9 | YES | 46 | YES |  |  |
| 3 | 9 | M | 35 | YES | 37 | YES |  |  |
| 4 | 10 | F | 23 | YES | 1 | YES |  |  |
| 5 | 9 | M | 45 | NO | 33 | YES |  |  |
| 6 | 9 | M | 40 | YES | 44 | YES |  |  |
| 7 | 9 | M | 5 | YES | 7 | YES |  |  |
| 8 | 9 | M | 27 | YES | 51 | YES |  |  |
| 9 | 9 | F | 56 | YES | 29 | YES |  |  |
| 10 | 10 | M | 42 | YES | 3 | NO |  |  |
| 11 | 9 | F | 49 | YES | 43 | NO |  |  |
| 12 | 10 | F | 2 | NO | 12 | YES |  |  |
| 13 | 9 | M | 47 | YES | 22 | YES |  |  |
| 14 | 9 | F | 30 | YES | 4 | YES |  |  |
| 15 | 9 | F | 10 | NO | 36 | YES |  |  |
| 16 | 9 | M | 52 | YES | 8 | YES |  |  |
| 17 | 9 | F | 6 | NO | 21 | YES |  |  |
| 18 | 10 | M | 9 | YES | 41 | YES |  |  |
| 19 | 9 | F | 1 | NO | 13 | YES |  |  |
| 20 | 10 | F | 33 | YES | 16 | YES |  |  |
| 21 | 10 | F | 40 | YES | 45 | YES |  |  |


| PARTICIPANT | AGE | GENDER | QUESTION | ANSWER | QUESTION | ANSWER |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 9 | M | 7 | YES | 1 | NO |
| 2 | 8 | F | 50 | NO | 40 | NO |
| 3 | 8 | M | 20 | NO | 15 | YES |
| 4 | 8 | F | 28 | YES | 34 | NO |
| 5 | 8 | M | 53 | NO | 38 | YES |
| 6 | 8 | M | 14 | YES | 26 | NO |
| 7 | 8 | M | 19 | YES | 33 | NO |
| 8 | 9 | M | 6 | NO | 25 | YES |
| 9 | 8 | F | 2 | YES | 9 | NO |
| 10 | 8 | M | 10 | NO | 32 | YES |
| 11 | 8 | F | 30 | NO | 12 | YES |
| 12 | 8 | M | 3 | YES | 39 | YES |
| 13 | 9 | F | 49 | NO | 48 | NO |
| 14 | 8 | M | 5 | YES | 8 | NO |
| 15 | 9 | F | 44 | YES | 16 | NO |
| 16 | 8 | M | 42 | NO | 13 | YES |
| 17 | 8 | F | 45 | NO | 7 | NO |
| 18 | 8 | M | 47 | NO | 40 | NO |
| 19 | 8 | F | 27 | NO | 29 | NO |
| 20 | 8 | M | 56 | NO | 33 | YES |
| 21 | 8 | M | 9 | NO | 21 | NO |
| 22 | 8 | M | 1 | YES | 41 | NO |


| PARTICIPANT | AGE | GENDER | QUESTION | ANSWER | QUESTION | ANSWER |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 11 | F | 44 | YES | 14 | YES |
| 2 | 10 | M | 7 | YES | 42 | NO |
| 3 | 10 | F | 48 | YES | 49 | NO |
| 4 | 10 | M | 38 | YES | 12 | YES |
| 5 | 10 | F | 32 | NO | 18 | YES |
| 6 | 10 | M | 34 | YES | 5 | YES |
| 7 | 11 | F | 10 | NO | 4 | YES |
| 8 | 10 | F | 8 | YES | 25 | NO |
| 9 | 10 | M | 9 | YES | 39 | YES |
| 10 | 10 | F | 15 | NO | 33 | YES |
| 11 | 11 | M | 40 | YES | 2 | NO |
| 12 | 11 | F | 3 | NO | 26 | YES |
| 13 | 10 | M | 19 | YES | 6 | YES |
| 14 | 10 | F | 1 | NO | 7 | YES |
| 15 | 10 | M | 42 | YES | 45 | NO |
| 16 | 10 | F | 52 | YES | 49 | YES |
| 17 | 10 | M | 12 | YES | 10 | NO |
| 18 | 10 | M | 44 | YES | 53 | YES |
| 19 | 10 | F | 8 | YES | 46 | YES |
| 20 | 10 | M | 41 | YES | 9 | YES |
| 21 | 10 | F | 20 | YES | 37 | YES |
| 22 | 10 | M | 33 | YES | 40 | YES |
| 23 | 10 | F | 7 | NO | 13 | NO |
| 24 | 11 | M | 5 | YES | 23 | YES |
| 25 | 10 | F | 42 | YES | 49 | YES |

School 4:

| PARTICIPANT | AGE | GENDER | QUESTION | ANSWER | QUESTION | ANSWER | QUESTION | ANSWER |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 13 | M | 47 | NO | 17 | NO | 74 | NO |
| 2 | 13 | M | 48 | NO | 56 | YES | 6 | NO |
| 3 | 15 | F | 11 | NO | 69 | NO | 61 | NO |
| 4 | 13 | F | 51 | YES | 46 | YES | 65 | NO |
| 5 | 13 | F | 21 | YES | 26 | YES |  |  |
| 6 | 13 | F | 55 | YES | 52 | YES |  |  |
| 7 | 14 | M | 54 | YES | 8 | NO | 42 | NO |
| 8 | 14 | F | 19 | YES | 58 | YES | 18 | NO |
| 9 | 13 | F | 69 | YES | 68 | YES |  |  |
| 10 | 14 | F | 32 | YES | 33 | NO |  |  |
| 11 | 14 | M | 41 | YES | 3 | NO |  |  |
| 12 | 13 | M | 70 | NO | 72 | NO | 16 | NO |
| 13 | 13 | M | 14 | NO | 22 | YES | 5 | NO |
| 14 | 14 | M | 29 | NO | 63 | YES | 60 | NO |
| 15 | 13 | F | 2 | YES | 13 | NO | 68 | YES |
| 16 | 14 | F | 9 | YES | 6 | YES | 73 | YES |


| PARTICIPANT | AGE | GENDER | QUESTION | ANSWER | QUESTION | ANSWER | QUESTION | ANSWER |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 13 | M | 31 | NO | 28 | YES | 27 | YES |
| 2 | 13 | F | 41 | YES | 17 | NO | 51 | YES |
| 3 | 15 | M | 24 | YES | 38 | NO | 7 | YES |
| 4 | 14 | M | 35 | YES | 9 | NO | 73 | NO |
| 5 | 13 | M | 42 | YES | 10 | YES | 49 | NO |
| 6 | 13 | M | 55 | NO | 54 | YES |  |  |
| 7 | 13 | M | 45 | NO | 56 | YES | 8 | NO |
| 8 | 13 | M | 48 | NO | 25 | YES | 53 | YES |
| 9 | 14 | M | 14 | NO | 61 | NO | 40 | NO |
| 10 | 13 | F | 36 | YES | 59 | NO | 67 | YES |
| 11 | 13 | F | 37 | YES | 69 | NO | 65 | YES |
| 12 | 13 | M | 74 | YES | 18 | NO | 2 | YES |
| 13 | 14 | M | 12 | NO | 21 | NO | 15 | NO |
| 14 | 13 | F | 52 | NO | 1 | YES | 50 | YES |
| 15 | 13 | F | 6 | NO | 47 | YES |  |  |
| 16 | 13 | M | 30 | YES | 29 | NO |  |  |
| 17 | 14 | M | 71 | YES | 57 | NO |  |  |


| PARTICIPANT | AGE | GENDER | QUESTION | ANSWER | QUESTION | ANSWER | QUESTION | ANSWER |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 13 | F | 6 | YES | 54 | NO | 50 | YES |
| 2 | 13 | F | 22 | YES | 51 | YES | 48 | YES |
| 3 | 13 | M | 14 | YES | 33 | NO | 18 | NO |
| 4 | 13 | F | 45 | YES | 7 | NO |  |  |
| 5 | 13 | F | 42 | YES | 56 | NO |  |  |
| 6 | 13 | F | 8 | NO | 15 | YES |  |  |
| 7 | 14 | F | 36 | YES | 16 | NO | 43 | NO |
| 8 | 13 | F | 25 | YES | 53 | NO | 29 | YES |
| 9 | 13 | F | 11 | NO | 19 | YES | 72 | NO |
| 10 | 14 | M | 1 | YES | 34 | YES | 46 | YES |
| 11 | 13 | F | 20 | NO | 67 | YES | 71 | YES |
| 12 | 13 | M | 21 | NO | 70 | NO | 26 | NO |
| 13 | 13 | F | 52 | NO | 2 | NO | 62 | YES |
| 14 | 13 | M | 44 | YES | 4 | YES | 3 | YES |
| 15 | 14 | F | 58 | YES | 23 | YES | 13 | NO |
| 16 | 13 | M | 39 | NO | 61 | NO |  |  |
| 17 | 13 | F | 57 | YES | 5 | NO |  |  |
| 18 | 13 | F | 32 | NO | 66 | YES |  |  |
| 19 | 13 | F | 37 | YES | 63 | NO |  |  |


| PARTICIPANT | AGE | GENDER | QUESTION | ANSWER | QUESTION | ANSWER |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 14 | M | 40 | NO | 18 | NO |
| 2 | 14 | M | 63 | YES | 53 | YES |
| 3 | 13 | F | 64 | YES | 43 | NO |
| 4 | 13 | M | 28 | NO | 60 | NO |
| 5 | 14 | M | 13 | NO | 32 | YES |
| 6 | 15 | M | 41 | YES | 12 | YES |
| 7 | 14 | F | 24 | YES | 3 | YES |
| 8 | 14 | M | 67 | YES | 21 | NO |
| 9 | 13 | F | 73 | NO | 52 | NO |
| 10 | 13 | M | 69 | NO | 9 | NO |
| 11 | 14 | M | 71 | YES | 29 | NO |
| 12 | 14 | M | 57 | NO | 23 | YES |
| 13 | 13 | M | 37 | YES | 39 | NO |
| 14 | 13 | M | 62 | YES | 47 | NO |
| 15 | 14 | M | 27 | NO | 66 | YES |
| 16 | 13 | F | 30 | NO | 61 | NO |
| 17 | 13 | F | 38 | NO | 55 | YES |
| 18 | 13 | F | 74 | NO | 65 | NO |


| PARTICIPANT | AGE | GENDER | QUESTION | ANSWER | QUESTION | ANSWER | QUESTION | ANSWER |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 15 | F | 39 | YES | 50 | YES | 61 | YES |
| 2 | 15 | M | 27 | YES | 66 | YES | 2 | NO |
| 3 | 15 | M | 38 | NO | 56 | YES | 1 | YES |
| 4 | 14 | M | 37 | YES | 7 | NO |  |  |
| 5 | 13 | M | 55 | YES | 44 | NO |  |  |
| 6 | 13 | M | 54 | YES | 40 | YES |  |  |
| 7 | 15 | M | 53 | YES | 14 | NO |  |  |
| 8 | 14 | F | 51 | YES | 12 | NO |  |  |
| 9 | 14 | M | 8 | NO | 22 | NO |  |  |
| 10 | 14 | F | 15 | NO | 21 | NO |  |  |
| 11 | 13 | M | 18 | NO | 29 | YES |  |  |
| 12 | 13 | M | 31 | YES | 34 | YES |  |  |
| 13 | 13 | M | 12 | NO | 67 | YES |  |  |
| 14 | 15 | M | 5 | NO | 57 | NO |  |  |
| 15 | 13 | M | 52 | YES | 27 | YES |  |  |
| 16 | 13 | F | 37 | NO | 49 | YES |  |  |
| 17 | 14 | F | 60 | YES | 7 | NO |  |  |
| 18 | 14 | F | 62 | YES | 20 | YES |  |  |
| 19 | 14 | M | 43 | NO | 53 | YES |  |  |
| 20 | 13 | F | 66 | YES | 38 | YES |  |  |
| 21 | 13 | M | 9 | NO | 73 | YES |  |  |

## School 5:

| PARTICIPANT | AGE | GENDER | QUESTION | ANSWER | QUESTION | ANSWER | QUESTION | ANSWER |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 8 | F | 38 | YES | 23 | NO | 41 | YES |
| 2 | 8 | F | 40 | NO | 7 | YES | 42 | YES |
| 3 | 9 | F | 47 | YES | 33 | YES | 14 | NO |
| 4 | 8 | M | 1 | NO | 50 | YES | 2 | NO |
| 5 | 8 | M | 10 | NO | 49 | YES | 54 | YES |
| 6 | 8 | M | 8 | YES | 31 | YES | 5 | YES |
| 7 | 8 | F | 25 | YES | 12 | YES | 26 | YES |
| 8 | 8 | M | 34 | NO | 9 | NO | 4 | NO |
| 9 | 8 | F | 40 | NO | 15 | NO |  |  |
| 10 | 8 | F | 6 | NO | 27 | NO |  |  |
| 11 | 8 | M | 52 | YES | 7 | YES |  |  |
| 12 | 8 | M | 28 | NO | 30 | YES |  |  |
| 13 | 8 | F | 36 | YES | 13 | YES |  |  |
| 14 | 8 | M | 29 | NO | 33 | YES |  |  |
| 15 | 8 | F | 32 | NO | 16 | YES |  |  |
| 16 | 8 | M | 18 | NO | 39 | NO |  |  |
| 17 | 8 | M | 10 | NO | 30 | NO |  |  |
| 18 | 8 | M | 32 | YES | 44 | YES |  |  |
| 19 | 8 | F | 22 | YES | 49 | NO |  |  |
| 20 | 8 | F | 8 | YES | 43 | YES |  |  |
| 21 | 8 | M | 48 | NO | 14 | NO |  |  |
| 22 | 8 | M | 12 | NO | 19 | NO |  |  |
| 23 | 8 | M | 3 | YES | 46 | YES |  |  |
| PARTICIPANT | AGE | GENDER | QUESTION | ANSWER | QUESTION | ANSWER | QUESTION | ANSWER |
| 1 | 9 | F | 13 | YES | 33 | NO | 35 | NO |
| 2 | 8 | F | 49 | YES | 52 | YES | 45 | NO |
| 3 | 9 | M | 13 | YES | 53 | YES |  |  |
| 4 | 9 | M | 9 | YES | 8 | YES |  |  |
| 5 | 9 | F | 25 | YES | 12 | YES |  |  |
| 6 | 9 | F | 44 | YES | 20 | YES |  |  |
| 7 | 9 | F | 26 | YES | 42 | YES |  |  |
| 8 | 9 | F | 27 | YES | 7 | NO |  |  |
| 9 | 9 | M | 40 | NO | 28 | YES |  |  |
| 10 | 9 | M | 33 | NO | 16 | NO |  |  |
| 11 | 9 | M | 1 | NO | 10 | YES |  |  |
| 12 | 9 | F | 21 | YES | 2 | NO |  |  |
| 13 | 9 | F | 49 | YES | 8 | YES |  |  |
| 14 | 9 | F | 5 | YES | 9 | YES |  |  |
| 15 | 9 | F | 30 | YES | 18 | NO |  |  |
| 16 | 9 | F | 42 | YES | 23 | YES |  |  |
| 17 | 9 | M | 29 | NO | 24 | YES |  |  |
| 18 | 9 | M | 7 | YES | 51 | YES |  |  |
| 19 | 9 | F | 47 | YES | 6 | YES |  |  |
| 20 | 9 | F | 3 | YES | 40 | YES |  |  |
| 21 | 9 | M | 38 | YES | 54 | YES |  |  |
| 22 | 9 | F | 44 | YES | 45 | YES |  |  |


| PARTICIPANT | AGE | GENDER | QUESTION | ANSWER | QUESTION | ANSWER | QUESTION | ANSWER |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 11 | M | 40 | NO | 33 | NO |  |  |
| 2 | 10 | M | 49 | YES | 36 | YES |  |  |
| 3 | 10 | F | 10 | NO | 44 | YES |  |  |
| 4 | 10 | F | 1 | YES | 8 | NO |  |  |
| 5 | 10 | M | 22 | YES | 18 | YES |  |  |
| 6 | 10 | F | 9 | YES | 46 | YES |  |  |
| 7 | 10 | F | 5 | NO | 12 | YES |  |  |
| 8 | 11 | F | 44 | YES | 6 | NO | 4 | YES |
| 9 | 10 | M | 22 | YES | 39 | NO | 1 | NO |
| 10 | 10 | F | 74 | NO | 37 | NO | 5 | YES |
| 11 | 10 | M | 32 | YES | 48 | NO | 7 | NO |
| 12 | 10 | F | 19 | YES | 20 | YES | 40 | NO |
| 13 | 10 | M | 3 | YES | 21 | YES |  |  |
| 14 | 10 | F | 42 | YES | 45 | NO |  |  |
| 15 | 10 | M | 33 | YES | 2 | NO | 44 | YES |
| 16 | 11 | F | 3 | YES | 15 | YES | 1 | YES |
| 17 | 10 | M | 51 | YES | 34 | YES | 6 | NO |
| 18 | 10 | M | 23 | YES | 45 | NO | 5 | NO |
| 19 | 10 | F | 92 | NO | 24 | YES | 9 | NO |
| 20 | 10 | F | 49 | YES | 8 | YES | 12 | YES |


| PARTICIPANT | AGE | GENDER | QUESTION | ANSWER | QUESTION | ANSWER |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 8 | F | 46 | YES | 52 | YES |
| 2 | 8 | F | 40 | YES | 42 | NO |
| 3 | 8 | M | 15 | NO | 48 | YES |
| 4 | 8 | M | 3 | NO | 2 | NO |
| 5 | 8 | F | 8 | YES | 9 | YES |
| 6 | 8 | F | 10 | YES | 6 | YES |
| 7 | 8 | F | 47 | NO | 12 | NO |
| 8 | 8 | M | 53 | YES | 13 | NO |
| 9 | 8 | F | 33 | YES | 16 | YES |
| 10 | 8 | M | 19 | YES | 44 | NO |
| 11 | 8 | F | 49 | NO | 49 | YES |
| 12 | 8 | F | 18 | NO | 20 | YES |
| 13 | 8 | M | 40 | YES | 38 | NO |
| 14 | 8 | M | 34 | YES | 42 | YES |
| 15 | 8 | F | 3 | YES | 7 | NO |
| 16 | 8 | M | 9 | NO | 1 | NO |
| 17 | 8 | F | 2 | NO | 10 | YES |
| 18 | 8 | F | 8 | YES | 54 | YES |
| 19 | 8 | M | 12 | NO | 33 | YES |
| 20 | 8 | M | 41 | YES | 40 | NO |
| 21 | 8 | F | 14 | NO | 49 | YES |
| 22 | 8 | M | 4 | NO | 50 | YES |
| 23 | 8 | M | 5 | YES | 56 | YES |


| PARTICIPANT | AGE | GENDER | QUESTION | ANSWER | QUESTION | ANSWER | QUESTION | ANSWER |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 9 | F | 13 | NO | 8 | NO | 16 | NO |
| 2 | 10 | M | 12 | NO | 36 | YES | 33 | YES |
| 3 | 9 | M | 42 | YES | 1 | NO | 41 | YES |
| 4 | 9 | M | 40 | YES | 28 | YES | 49 | NO |
| 5 | 9 | F | 52 | YES | 23 | YES |  |  |
| 6 | 9 | F | 43 | YES | 7 | YES |  |  |
| 7 | 9 | F | 10 | NO | 30 | YES |  |  |
| 8 | 9 | M | 18 | YES | 37 | YES | 15 | YES |
| 9 | 9 | M | 44 | NO | 8 | YES | 3 | YES |
| 10 | 9 | F | 42 | YES | 19 | YES | 25 | YES |
| 11 | 9 | F | 5 | YES | 12 | YES | 7 | NO |
| 12 | 9 | M | 6 | YES | 2 | YES | 1 | YES |
| 13 | 9 | F | 39 | YES | 40 | YES | 10 | NO |
| 14 | 9 | M | 29 | YES | 45 | YES | 33 | YES |
| 15 | 9 | M | 44 | YES | 49 | NO | 35 | YES |
| 16 | 9 | F | 53 | YES | 5 | NO | 10 | NO |
| 17 | 9 | F | 6 | NO | 8 | YES | 48 | YES |
| 18 | 9 | F | 51 | YES | 2 | YES | 33 | YES |
| 19 | 9 | F | 42 | YES | 12 | NO |  |  |
| 20 | 9 | M | 9 | NO | 40 | YES |  |  |
| 21 | 10 | F | 45 | NO | 7 | NO | 14 | NO |


| PARTICIPANT | AGE | GENDER | QUESTION | ANSWER | QUESTION | ANSWER | QUESTION | ANSWER |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 10 | M | 41 | YES | 45 | NO | 44 | YES |
| 2 | 10 | F | 14 | NO | 46 | NO | 25 | YES |
| 3 | 10 | M | 33 | YES | 36 | YES |  |  |
| 4 | 10 | F | 25 | YES | 22 | YES |  |  |
| 5 | 9 | M | 26 | YES | 49 | YES |  |  |
| 6 | 10 | F | 27 | NO | 1 | NO | 30 | YES |
| 7 | 10 | F | 39 | NO | 28 | YES | 48 | YES |
| 8 | 10 | M | 10 | NO | 37 | YES | 39 | NO |
| 9 | 10 | M | 5 | YES | 8 | YES | 29 | NO |
| 10 | 10 | M | 6 | NO | 2 | NO |  |  |
| 11 | 10 | F | 33 | YES | 9 | NO | 45 | NO |
| 12 | 10 | M | 20 | YES | 21 | YES | 42 | YES |
| 13 | 10 | F | 3 | NO | 23 | YES | 7 | NO |
| 14 | 10 | M | 52 | YES | 13 | YES |  |  |
| 15 | 10 | M | 16 | YES | 12 | YES |  |  |


| PARTICIPANT | AGE | GENDER | QUESTION | ANSWER | QUESTION | ANSWER | QUESTION | ANSWER |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 8 | F | 10 | NO | 6 | NO |  |  |
| 2 | 8 | M | 33 | YES | 36 | NO |  |  |
| 3 | 8 | M | 49 | NO | 5 | YES |  |  |
| 4 | 8 | F | 24 | YES | 37 | YES |  |  |
| 5 | 8 | M | 52 | YES | 8 | YES |  |  |
| 6 | 8 | M | 2 | YES | 12 | NO |  |  |
| 7 | 8 | M | 3 | NO | 25 | NO |  |  |
| 8 | 8 | M | 1 | YES | 51 | YES |  |  |
| 9 | 8 | M | 16 | YES | 9 | NO |  |  |
| 10 | 8 | F | 42 | YES | 18 | NO |  |  |
| 11 | 9 | M | 26 | YES | 40 | NO |  |  |
| 12 | 8 | M | 47 | YES | 45 | NO |  |  |
| 13 | 8 | F | 7 | NO | 39 | NO |  |  |
| 14 | 8 | F | 10 | NO | 27 | YES |  |  |
| 15 | 8 | F | 44 | YES | 41 | YES |  |  |
| 16 | 9 | M | 6 | NO | 5 | YES |  |  |
| 17 | 9 | M | 33 | YES | 28 | YES | 46 | NO |
| 18 | 8 | F | 30 | YES | 38 | YES | 29 | YES |
| 19 | 8 | M | 49 | NO | 8 | YES | 1 | YES |
| 20 | 8 | M | 4 | YES | 12 | YES |  |  |
| 21 | 8 | F | 2 | NO | 15 | YES |  |  |
| 22 | 8 | M | 14 | YES | 42 | NO |  |  |
| 23 | 8 | F | 40 | NO | 3 | YES |  |  |
| 24 | 8 | F | 19 | NO | 53 | YES |  |  |


| PARTICIPANT | AGE | GENDER | QUESTION | ANSWER | QUESTION | ANSWER | QUESTION | ANSWER |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 9 | M | 21 | YES | 2 | NO | 45 | YES |
| 2 | 9 | F | 22 | YES | 19 | NO | 42 | YES |
| 3 | 9 | F | 23 | YES | 38 | YES | 24 | NO |
| 4 | 9 | M | 24 | YES | 3 | NO | 30 | YES |
| 5 | 9 | F | 25 | YES | 49 | YES | 40 | NO |
| 6 | 9 | F | 26 | YES | 8 | NO |  |  |
| 7 | 9 | F | 27 | YES | 9 | YES |  |  |
| 8 | 9 | F | 28 | YES | 1 | NO |  |  |
| 9 | 9 | M | 29 | YES | 15 | NO |  |  |
| 10 | 9 | F | 30 | YES | 37 | YES |  |  |
| 11 | 9 | M | 31 | YES | 10 | NO |  |  |
| 12 | 9 | M | 32 | YES | 44 | NO |  |  |
| 13 | 9 | F | 33 | YES | 14 | NO |  |  |
| 14 | 9 | F | 34 | YES | 6 | YES |  |  |
| 15 | 9 | M | 35 | YES | 2 | YES |  |  |
| 16 | 9 | F | 36 | YES | 49 | YES |  |  |
| 17 | 9 | M | 37 | YES | 1 | YES |  |  |
| 18 | 9 | F | 38 | YES | 8 | YES |  |  |
| 19 | 10 | F | 39 | YES | 23 | YES |  |  |
| 20 | 9 | M | 40 | YES | 12 | YES |  |  |
| 21 | 9 | F | 41 | YES | 44 | YES |  |  |
| 22 | 9 | F | 42 | YES | 42 | NO |  |  |
| 23 | 9 | M | 43 | YES | 40 | NO |  |  |
| 24 | 9 | F | 44 | YES | 7 | YES |  |  |


| PARTICIPANT | AGE | GENDER | QUESTION | ANSWER | QUESTION | ANSWER |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 10 | F | 53 | YES | 15 | NO |
| 2 | 10 | F | 42 | YES | 51 | YES |
| 3 | 10 | F | 40 | YES | 52 | YES |
| 4 | 10 | M | 44 | NO | 13 | NO |
| 5 | 10 | F | 20 | YES | 7 | YES |
| 6 | 10 | F | 21 | YES | 16 | YES |
| 7 | 10 | F | 33 | NO | 23 | NO |
| 8 | 10 | M | 24 | YES | 47 | YES |
| 9 | 10 | F | 10 | NO | 45 | NO |
| 10 | 10 | F | 18 | NO | 49 | NO |
| 11 | 10 | M | 1 | NO | 36 | YES |
| 12 | 10 | M | 2 | YES | 8 | NO |
| 13 | 10 | M | 38 | NO | 9 | YES |
| 14 | 10 | M | 37 | YES | 12 | YES |
| 15 | 10 | M | 42 | YES | 5 | YES |
| 16 | 10 | M | 40 | NO | 7 | YES |
| 17 | 10 | M | 39 | NO | 41 | YES |
| 18 | 10 | M | 46 | YES | 6 | NO |
| 19 | 10 | F | 50 | NO | 14 | NO |
| 20 | 10 | M | 15 | NO | 22 | NO |
| 21 | 10 | F | 43 | NO | 48 | YES |
| 22 | 10 | M | 52 | YES | 19 | NO |


| PARTICIPANT | AGE | GENDER | QUESTION | ANSWER | QUESTION | ANSWER |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 8 | M | 52 | YES | 6 | NO |
| 2 | 8 | F | 44 | YES | 15 | YES |
| 3 | 8 | M | 42 | YES | 45 | NO |
| 4 | 8 | M | 7 | NO | 9 | NO |
| 5 | 8 | F | 13 | YES | 3 | NO |
| 6 | 8 | M | 1 | NO | 2 | NO |
| 7 | 8 | M | 10 | YES | 8 | NO |
| 8 | 8 | F | 12 | YES | 54 | YES |
| 9 | 8 | M | 33 | YES | 50 | NO |
| 10 | 8 | F | 21 | YES | 40 | YES |
| 11 | 8 | F | 49 | YES | 4 | NO |
| 12 | 8 | M | 56 | YES | 5 | NO |
| 13 | 8 | M | 22 | NO | 23 | NO |
| 14 | 8 | M | 24 | YES | 51 | YES |
| 15 | 8 | F | 42 | YES | 40 | YES |
| 16 | 8 | M | 18 | NO | 7 | NO |
| 17 | 8 | F | 8 | NO | 38 | YES |
| 18 | 8 | M | 36 | YES |  |  |
| 19 | 8 | M | 39 | YES |  |  |
| 20 | 8 | M | 44 | YES |  |  |
| 21 | 8 | M | 8 | YES |  |  |
| 22 | 8 | F | 3 | YES |  |  |
| 23 | 8 | F | 41 | YES |  |  |
| 24 | 8 | M | 9 | YES |  |  |
| 25 | 8 | F | 25 | NO |  |  |


| PARTICIPANT | AGE | GENDER | QUESTION | ANSWER | QUESTION | ANSWER | QUESTION | ANSWER |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 8 | F | 2 | NO | 40 | YES | 14 | NO |
| 2 | 9 | M | 9 | NO | 34 | YES |  |  |
| 3 | 9 | M | 10 | NO | 21 | YES | 9 | YES |
| 4 | 9 | F | 33 | NO | 49 | NO | 34 | NO |
| 5 | 9 | F | 23 | NO | 36 | YES | 46 | YES |
| 6 | 9 | F | 8 | YES | 30 | YES | 24 | YES |
| 7 | 9 | F | 29 | YES | 15 | YES |  |  |
| 8 | 9 | M | 12 | NO | 32 | NO | 26 | NO |
| 9 | 9 | F | 3 | YES | 37 | NO |  |  |
| 10 | 10 | M | 39 | YES | 42 | YES |  |  |
| 11 | 10 | F | 45 | NO | 51 | YES |  |  |
| 12 | 9 | F | 13 | YES | 40 | NO |  |  |
| 13 | 9 | M | 25 | YES | 44 | YES |  |  |
| 14 | 9 | F | 52 | YES | 19 | YES |  |  |
| 15 | 9 | M | 48 | NO | 53 | YES |  |  |
| 16 | 9 | M | 1 | YES | 20 | YES |  |  |
| 17 | 9 | F | 16 | YES | 6 | NO |  |  |
| 18 | 9 | M | 5 | NO | 47 | YES |  |  |
| 19 | 9 | F | 27 | NO | 18 | NO |  |  |
| 20 | 9 | M | 7 | NO | 28 | NO |  |  |


| PARTICIPANT | AGE | GENDER | QUESTION | ANSWER | QUESTION | ANSWER |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 10 | F | 2 | NO | 36 | YES |
| 2 | 10 | F | 42 | NO | 22 | YES |
| 3 | 10 | M | 43 | YES | 13 | YES |
| 4 | 10 | F | 44 | NO | 16 | YES |
| 5 | 10 | F | 45 | YES | 45 | NO |
| 6 | 10 | M | 46 | NO | 25 | YES |
| 7 | 10 | M | 47 | NO | 26 | YES |
| 8 | 10 | M | 48 | NO | 33 | NO |
| 9 | 10 | F | 49 | NO | 8 | YES |
| 10 | 10 | F | 50 | YES | 37 | YES |
| 11 | 10 | M | 51 | YES | 39 | YES |
| 12 | 10 | M | 52 | YES | 25 | YES |
| 13 | 10 | M | 53 | NO | 24 | NO |
| 14 | 10 | M | 54 | NO | 34 | YES |
| 15 | 10 | F | 55 | YES | 27 | NO |
| 16 | 10 | F | 56 | YES | 48 | YES |
| 17 | 10 | M | 57 | NO | 12 | YES |
| 18 | 10 | F | 58 | YES | 42 | NO |
| 19 | 10 | M | 59 | YES | 18 | YES |
| 20 | 10 | M | 60 | YES | 7 | NO |
| 21 | 10 | M | 61 | YES | 18 | YES |
| 22 | 10 | F | 62 | YES | 40 | YES |


| PARTICIPANT | AGE | GENDER | QUESTION | ANSWER | QUESTION | ANSWER | QUESTION | ANSWER |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 8 | F | 45 | NO | 8 | YES |  |  |
| 2 | 8 | F | 12 | YES | 1 | NO |  |  |
| 3 | 8 | M | 37 | YES | 33 | YES |  |  |
| 4 | 8 | F | 14 | YES | 40 | YES |  |  |
| 5 | 8 | M | 43 | YES | 43 | YES |  |  |
| 6 | 8 | F | 42 | YES | 7 | YES |  |  |
| 7 | 8 | M | 52 | NO | 15 | NO |  |  |
| 8 | 8 | F | 10 | NO | 48 | YES |  |  |
| 9 | 8 | M | 8 | YES | 13 | NO |  |  |
| 10 | 8 | M | 33 | YES | 12 | NO |  |  |
| 11 | 8 | M | 13 | NO | 2 | NO |  |  |
| 12 | 8 | M | 27 | NO | 40 | NO |  |  |
| 13 | 8 | M | 54 | YES | 7 | NO |  |  |
| 14 | 8 | M | 53 | YES | 49 | YES |  |  |
| 15 | 8 | M | 20 | NO | 21 | YES | 2 | NO |
| 16 | 8 | F | 3 | YES | 4 | YES | 18 | YES |
| 17 | 8 | F | 42 | YES | 22 | NO | 33 | YES |
| 18 | 8 | F | 10 | NO | 66 | NO | 23 | YES |
| 19 | 8 | F | 44 | YES | 8 | YES | 24 | YES |
| 20 | 8 | F | 12 | NO | 3 | YES | 38 | NO |
| 21 | 8 | F | 45 | YES | 16 | YES | 28 | NO |


| PARTICIPANT | AGE | GENDER | QUESTION | ANSWER | QUESTION | ANSWER |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 9 | M | 32 | NO | 7 | YES |
| 2 | 9 | F | 10 | NO | 33 | YES |
| 3 | 9 | M | 43 | YES | 19 | NO |
| 4 | 9 | F | 49 | NO | 45 | YES |
| 5 | 9 | F | 39 | YES | 27 | NO |
| 6 | 9 | F | 20 | YES | 8 | YES |
| 7 | 9 | M | 7 | NO | 12 | YES |
| 8 | 9 | M | 9 | NO | 44 | NO |
| 9 | 10 | F | 5 | NO | 42 | NO |
| 10 | 9 | M | 40 | NO | 48 | YES |
| 11 | 9 | F | 7 | YES | 6 | NO |
| 12 | 9 | M | 20 | YES | 10 | NO |
| 13 | 9 | M | 33 | YES | 21 | YES |
| 14 | 9 | M | 45 | YES | 49 | NO |


| PARTICIPANT | AGE | GENDER | QUESTION | ANSWER | QUESTION | ANSWER | QUESTION | ANSWER |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 10 | M | 1 | NO | 41 | YES | 29 | YES |
| 2 | 10 | M | 30 | YES | 14 | NO | 9 | YES |
| 3 | 10 | F | 36 | YES | 42 | YES |  |  |
| 4 | 10 | M | 16 | NO | 5 | NO |  |  |
| 5 | 10 | M | 52 | YES | 8 | YES |  |  |
| 6 | 10 | M | 39 | YES | 12 | YES |  |  |
| 7 | 10 | F | 33 | NO | 42 | YES |  |  |
| 8 | 10 | M | 37 | YES | 10 | NO |  |  |
| 9 | 10 | F | 43 | YES | 6 | YES |  |  |
| 10 | 10 | M | 32 | YES | 48 | YES |  |  |
| 11 | 10 | F | 19 | NO | 6 | NO |  |  |
| 12 | 10 | M | 46 | YES | 13 | NO |  |  |
| 13 | 10 | F | 8 | YES | 53 | YES |  |  |
| 14 | 10 | F | 3 | NO | 12 | YES |  |  |
| 15 | 10 | F | 42 | YES | 16 | YES |  |  |
| 16 | 10 | M | 20 | NO | 57 | YES |  |  |
| 17 | 10 | M | 21 | YES | 18 | NO |  |  |
| 18 | 10 | M | 44 | NO | 45 | NO |  |  |


| PARTICIPANT | AGE | GENDER | QUESTION | ANSWER | QUESTION | ANSWER | QUESTION | ANSWER |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 8 | M | 51 | YES | 19 | NO | 7 | NO |
| 2 | 8 | F | 8 | YES | 9 | YES | 25 | YES |
| 3 | 8 | F | 12 | YES | 13 | NO | 14 | NO |
| 4 | 8 | M | 26 | YES | 20 | YES | 10 | NO |
| 5 | 8 | M | 21 | YES | 15 | NO | 16 | YES |
| 6 | 8 | F | 18 | NO | 33 | YES | 38 | NO |
| 7 | 8 | F | 42 | YES | 23 | YES | 3 | YES |
| 8 | 8 | M | 40 | YES | 22 | YES | 2 | NO |
| 9 | 8 | F | 49 | YES | 27 | YES | 24 | YES |
| 10 | 8 | F | 55 | YES | 31 | NO |  |  |
| 11 | 8 | M | 36 | YES | 7 | NO |  |  |
| 12 | 8 | F | 34 | YES | 4 | NO |  |  |
| 13 | 8 | M | 8 | YES | 9 | NO |  |  |
| 14 | 8 | F | 28 | YES | 3 | NO |  |  |
| 15 | 8 | F | 41 | NO | 5 | YES |  |  |
| 16 | 8 | F | 14 | NO | 6 | NO |  |  |
| 17 | 8 | F | 44 | NO | 43 | YES |  |  |
| 18 | 8 | M | 45 | YES | 10 | NO |  |  |
| 19 | 8 | F | 12 | NO | 13 | NO |  |  |
| 20 | 8 | M | 33 | YES | 3 | NO |  |  |
| 21 | 8 | F | 1 | NO | 54 | YES |  |  |
| 22 | 8 | F | 2 | NO | 30 | YES |  |  |
| 23 | 8 | F | 35 | YES | 32 | YES |  |  |
| 24 | 8 | F | 4 | NO | 49 | NO |  |  |
| 25 | 8 | F | 40 | YES | 52 | YES |  |  |


| PARTICIPANT | AGE | GENDER | QUESTION | ANSWER | QUESTION | ANSWER |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 9 | F | 13 | YES | 52 | YES |
| 2 | 9 | F | 16 | YES | 25 | NO |
| 3 | 9 | M | 1 | NO | 45 | NO |
| 4 | 9 | F | 20 | YES | 7 | NO |
| 5 | 9 | F | 18 | NO | 41 | YES |
| 6 | 9 | M | 10 | NO | 38 | YES |
| 7 | 9 | M | 33 | YES | 49 | NO |
| 8 | 9 | M | 98 | YES | 8 | YES |
| 9 | 9 | F | 44 | YES | 5 | YES |
| 10 | 9 | F | 12 | NO | 9 | YES |
| 11 | 9 | M | 15 | YES | 23 | YES |
| 12 | 9 | F | 21 | YES | 6 | NO |
| 13 | 9 | F | 42 | NO | 51 | YES |
| 14 | 9 | M | 40 | NO | 7 | YES |
| 15 | 9 | M | 33 | NO | 10 | YES |
| 16 | 9 | F | 40 | YES | 35 | NO |
| 17 | 9 | F | 8 | YES | 2 | YES |
| 18 | 9 | M | 26 | YES | 12 | YES |
| 19 | 9 | M | 9 | NO | 36 | YES |
| 20 | 9 | M | 23 | YES | 22 | YES |
| 21 | 9 | M | 14 | NO | 42 | YES |
| 22 | 9 | F | 40 | YES | 7 | YES |


| PARTICIPANT | AGE | GENDER | QUESTION | ANSWER | QUESTION | ANSWER | QUESTION | ANSWER |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 11 | M | 66 | NO | 71 | YES | 65 | YES |
| 2 | 11 | F | 54 | YES | 17 | NO | 29 | NO |
| 3 | 11 | F | 6 | NO | 69 | NO |  |  |
| 4 | 12 | M | 21 | NO | 55 | YES |  |  |
| 5 | 11 | M | 14 | YES | 46 | NO |  |  |
| 6 | 12 | F | 51 | YES | 74 | YES |  |  |
| 7 | 11 | M | 57 | YES | 1 | YES |  |  |
| 8 | 11 | M | 34 | NO | 22 | YES |  |  |
| 9 | 11 | M | 4 | NO | 62 | YES |  |  |
| 10 | 11 | M | 35 | YES | 37 | YES |  |  |
| 11 | 11 | F | 49 | NO | 19 | NO |  |  |
| 12 | 11 | M | 31 | NO | 7 | NO |  |  |
| 13 | 11 | M | 26 | NO | 27 | YES | 5 | YES |
| 14 | 12 | M | 56 | YES | 20 | NO |  |  |
| 15 | 11 | F | 10 | YES | 70 | YES |  |  |
| 16 | 11 | M | 8 | NO | 59 | NO |  |  |
| 17 | 11 | F | 72 | NO | 58 | YES |  |  |
| 18 | 11 | M | 3 | YES | 2 | NO |  |  |


| PARTICIPANT | AGE | GENDER | QUESTION | ANSWER | QUESTION | ANSWER | QUESTION | ANSWER |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 12 | M | 3 | YES | 40 | NO |  |  |
| 2 | 13 | F | 33 | YES | 54 | YES |  |  |
| 3 | 12 | M | 18 | NO | 73 | NO |  |  |
| 4 | 13 | F | 55 | YES | 52 | NO |  |  |
| 5 | 12 | F | 68 | NO | 14 | NO |  |  |
| 6 | 13 | M | 37 | YES | 53 | YES |  |  |
| 7 | 12 | M | 7 | NO | 42 | YES |  |  |
| 8 | 12 | M | 36 | YES | 67 | YES | 20 | NO |
| 9 | 13 | M | 27 | NO | 47 | YES | 51 | NO |
| 10 | 12 | F | 56 | YES | 44 | NO | 2 | YES |
| 11 | 13 | M | 71 | YES | 21 | NO |  |  |
| 12 | 13 | F | 29 | YES | 1 | YES |  |  |
| 13 | 12 | M | 50 | YES | 34 | NO |  |  |
| 14 | 12 | F | 48 | YES | 12 | NO |  |  |
| 15 | 12 | M | 15 | YES | 57 | NO | 9 | NO |
| 16 | 12 | M | 23 | YES | 25 | NO | 38 | NO |
| 17 | 12 | F | 16 | NO | 41 | YES | 24 | NO |
| 18 | 12 | F | 73 | NO | 64 | YES | 8 | YES |
| 19 | 12 | M | 43 | NO | 39 | NO |  |  |
| 20 | 12 | F | 61 | YES | 30 | YES |  |  |
| 21 | 12 | M | 62 | YES | 11 | NO |  |  |


| PARTICIPANT | AGE | GENDER | QUESTION | ANSWER | QUESTION | ANSWER | QUESTION | ANSWER |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 13 | M | 73 | YES | 57 | NO | 34 | YES |
| 2 | 13 | M | 9 | YES | 62 | YES | 20 | YES |
| 3 | 14 | M | 16 | NO | 46 | NO | 67 | YES |
| 4 | 14 | F | 30 | YES | 8 | YES | 69 | NO |
| 5 | 13 | F | 18 | NO | 6 | NO | 31 | NO |
| 6 | 13 | M | 52 | NO | 7 | YES |  |  |
| 7 | 14 | M | 17 | NO | 37 | NO |  |  |
| 8 | 13 | M | 2 | NO | 55 | YES | 74 | YES |
| 9 | 14 | F | 7 | YES | 27 | YES | 56 | NO |
| 10 | 13 | M | 15 | NO | 23 | YES | 35 | YES |
| 11 | 13 | M | 22 | YES | 64 | YES | 71 | YES |
| 12 | 13 | F | 26 | YES | 43 | NO | 21 | NO |
| 13 | 13 | F | 58 | NO | 4 | YES | 39 | NO |
| 14 | 13 | M | 49 | NO | 32 | YES | 72 | YES |
| 15 | 13 | M | 45 | YES | 65 | NO | 5 | NO |
| 16 | 13 | M | 29 | NO | 61 | YES | 62 | YES |
| 17 | 13 | F | 10 | YES | 51 | YES | 8 | YES |
| 18 | 13 | M | 28 | NO | 30 | NO | 60 | NO |
| 19 | 13 | F | 38 | NO | 59 | NO | 63 | NO |
| 20 | 13 | F | 19 | YES | 70 | NO | 66 | YES |


| PARTICIPANT | AGE | GENDER | QUESTION | ANSWER | QUESTION | ANSWER | QUESTION | ANSWER |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 11 | M | 5 | NO | 68 | NO | 60 | NO |
| 2 | 11 | M | 53 | NO | 23 | YES | 51 | NO |
| 3 | 12 | F | 59 | NO | 64 | YES | 38 | YES |
| 4 | 11 | F | 43 | YES | 39 | NO | 73 | NO |
| 5 | 11 | F | 61 | NO | 65 | YES |  |  |
| 6 | 11 | M | 58 | NO | 66 | YES |  |  |
| 7 | 12 | M | 40 | NO | 3 | NO | 14 | NO |
| 8 | 12 | M | 33 | YES | 54 | YES |  |  |
| 9 | 12 | M | 7 | NO | 63 | NO |  |  |
| 10 | 11 | F | 13 | NO | 55 | YES |  |  |
| 11 | 11 | F | 68 | YES | 47 | YES |  |  |
| 12 | 11 | M | 44 | YES | 27 | NO |  |  |
| 13 | 11 | F | 56 | YES | 71 | YES |  |  |
| 14 | 12 | M | 12 | NO | 21 | NO |  |  |
| 15 | 11 | F | 29 | YES | 73 | NO |  |  |
| 16 | 11 | M | 62 | YES | 65 | NO |  |  |


| PARTTCIPAN | AGE | GENDER | QUESTION | ANSWER | QUESTION | ANSWER | QUESTION | ANSWER |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 13 | F | 53 | NO | 62 | YES | 18 | NO |
| 2 | 12 | F | 65 | YES | 57 | YES | 33 | YES |
| 3 | 12 | M | 15 | YES | 7 | NO |  |  |
| 4 | 13 | M | 19 | YES | 68 | YES |  |  |
| 5 | 13 | M | 13 | NO | 3 | YES |  |  |
| 6 | 12 | M | 72 | NO | 70 | NO |  |  |
| 7 | 13 | M | 5 | YES | 60 | NO | 24 | NO |
| 8 | 14 | M | 21 | NO | 73 | YES |  |  |
| 9 | 12 | M | 16 | YES | 52 | NO |  |  |
| 10 | 11 | M | 32 | NO | 63 | NO |  |  |
| 11 | 12 | M | 36 | NO | 30 | NO |  |  |
| 12 | 12 | M | 17 | YES | 9 | NO |  |  |
| 13 | 12 | M | 67 | NO | 26 | YES | 59 | NO |
| 14 | 13 | M | 70 | NO | 17 | NO | 71 | NO |
| 15 | 12 | M | 72 | NO | 27 | NO | 9 | N0 |
| 16 | 12 | F | 47 | YES | 14 | YES |  |  |
| 17 | 12 | F | 29 | NO | 22 | YES |  |  |
| 18 | 13 | F | 61 | NO | 22 | NO |  |  |


| PARTICIPANT | AGE | GENDER | QUESTION | ANSWER | QUESTION | ANSWER | QUESTION | ANSWER |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 15 | F | 32 | YES | 1 | YES | 37 | NO |
| 2 | 14 | F | 60 | YES | 57 | YES |  |  |
| 3 | 13 | M | 59 | NO | 10 | NO |  |  |
| 4 | 13 | F | 43 | YES | 18 | NO |  |  |
| 5 | 13 | M | 46 | NO | 44 | NO |  |  |
| 6 | 13 | F | 52 | NO | 12 | NO | 9 | NO |
| 7 | 15 | F | 21 | NO | 40 | NO | 8 | YES |
| 8 | 13 | F | 67 | YES | 31 | NO | 38 | YES |
| 9 | 13 | F | 37 | YES | 73 | NO |  |  |
| 10 | 13 | F | 39 | NO | 56 | YES |  |  |
| 11 | 13 | F | 6 | NO | 4 | YES | 74 | YES |
| 12 | 13 | M | 27 | YES | 55 | YES |  |  |
| 13 | 14 | F | 72 | YES | 29 | NO |  |  |
| 14 | 13 | M | 35 | YES | 69 | YES |  |  |
| 15 | 13 | M | 67 | NO | 63 | NO |  |  |


| PARTICIPANT | AGE | GENDER | QUESTION | ANSWER | QUESTION | ANSWER | QUESTION | ANSWER |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 11 | F | 22 | NO | 54 | YES |  |  |
| 2 | 11 | M | 12 | NO | 74 | YES |  |  |
| 3 | 11 | M | 10 | NO | 7 | NO |  |  |
| 4 | 11 | F | 29 | NO | 26 | YES |  |  |
| 5 | 11 | F | 37 | NO | 27 | YES |  |  |
| 6 | 12 | F | 51 | YES | 52 | YES |  |  |
| 7 | 11 | F | 4 | YES | 56 | YES |  |  |
| 8 | 11 | M | 36 | YES | 62 | YES |  |  |
| 9 | 10 | F | 41 | YES | 67 | YES |  |  |
| 10 | 11 | F | 43 | YES | 57 | YES |  |  |
| 11 | 11 | M | 39 | YES | 15 | NO |  |  |
| 12 | 11 | F | 65 | NO | 71 | YES |  |  |
| 13 | 11 | M | 60 | NO | 29 | NO |  |  |
| 14 | 11 | F | 73 | NO | 12 | YES |  |  |
| 15 | 11 | M | 13 | NO | 18 | NO |  |  |
| 16 | 11 | F | 8 | YES | 6 | YES |  |  |
| 17 | 11 | F | 42 | YES | 38 | YES | 6 | YES |
| 18 | 12 | F | 23 | YES | 53 | YES | 52 | NO |
| 19 | 11 | M | 21 | YES | 5 | YES |  |  |
| 20 | 11 | M | 3 | NO | 13 | NO |  |  |
| 21 | 12 | M | 37 | NO | 54 | YES |  |  |
| 22 | 12 | M | 56 | YES | 7 | NO |  |  |
| 23 | 11 | M | 27 | YES | 70 | NO |  |  |
| 24 | 11 | M | 51 | YES | 72 | YES |  |  |
| 25 | 11 | M | 63 | NO | 68 | YES |  |  |


| PARTICIPANT | AGE | GENDER | QUESTION | ANSWER | QUESTION | ANSWER | QUESTION | ANSWER |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 12 | M | 17 | YES | 53 | NO |  |  |
| 2 | 12 | M | 24 | NO | $27$ | NO |  |  |
| 3 | 12 | F | 70 | NO | 7 | NO |  |  |
| 4 | $13$ | M | 66 | YES | 59 | NO |  |  |
| 5 | 12 | M | 29 | NO | 27 | YES |  |  |
| 6 | 13 | F | 37 | YES | 64 | NO |  |  |
| 7 | $12$ | M | 44 | YES | 51 | YES | 69 | NO |
| 8 | 12 | F | 61 | NO | 52 | YES | $19$ | YES |
| 9 | 12 | F | 47 | NO | 72 | NO | 67 | YES |
| $10$ | $12$ | M | $44$ | NO | 55 | NO | 63 | NO |
| 11 | 12 | M | 56 | NO | 62 | YES |  |  |
| 12 | $13$ | M | $71$ | YES | $9$ | NO | 21 | NO |
| 13 | 12 | M | 8 | YES | $57$ | NO | 22 | YES |
| 14 | 12 | F | 18 | NO | 40 | NO | 28 | YES |
| 15 | $12$ | M | $53$ | YES | 25 | NO | 32 | YES |
| 16 | 12 | M | 35 | YES | 33 | NO | 26 | NO |
| 17 | 12 | M | 30 | YES | 68 | YES |  |  |


| PARTICIPANT | AGE | GENDER | QUESTION | ANSWER | QUESTION | ANSWER | QUESTION | ANSWER |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 13 | M | 31 | YES | 34 | YES | 18 | YES |
| 2 | 13 | F | 44 | NO | 47 | NO | 71 | YES |
| 3 | 14 | F | 50 | YES | 62 | YES | 43 | YES |
| 4 | 12 | F | 67 | NO | 63 | NO |  |  |
| 5 | 13 | F | 40 | NO | 57 | YES |  |  |
| 6 | 13 | M | 28 | NO | 70 | NO |  |  |
| 7 | 13 | M | 29 | YES | 46 | NO | 20 | YES |
| 8 | 13 | M | 53 | YES | 69 | NO | 74 | YES |
| 9 | 13 | F | 30 | NO | 8 | YES |  |  |
| 10 | 13 | F | 35 | YES | 21 | NO |  |  |
| 11 | 13 | F | 9 | NO | 37 | NO |  |  |
| 12 | 13 | M | 27 | YES | 59 | YES |  |  |
| 13 | 13 | M | 64 | NO | 65 | YES | 67 | YES |
| 14 | 13 | M | 60 | NO | 36 | NO | 13 | NO |
| 15 | 13 | F | 7 | NO | 2 | NO | 33 | NO |
| 16 | 13 | M | 11 | YES | 38 | NO | 51 | YES |
| 17 | 13 | M | 24 | NO | 23 | YES | 63 | NO |
| 18 | 13 | M | 5 | NO | 73 | NO | 52 | YES |


| PARTICIPANT | AGE | GENDER | QUESTION | ANSWER | QUESTION | ANSWER | QUESTION | ANSWER |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 11 | M | 8 | NO | 35 | YES | 52 | NO |
| 2 | 11 | F | 21 | NO | 43 | YES | 62 | YES |
| 3 | 11 | F | 37 | YES | 27 | YES | 39 | YES |
| 4 | 11 | M | 33 | NO | 56 | NO | 38 | YES |
| 5 | 11 | F | 66 | NO | 59 | NO | 17 | NO |
| 6 | 11 | M | 7 | NO | 48 | YES | 60 | YES |
| 7 | 11 | F | 22 | YES | 16 | YES | 18 | NO |
| 8 | 11 | M | 67 | YES | 5 | NO |  |  |
| 9 | 11 | M | 13 | NO | 29 | NO |  |  |
| 10 | 11 | M | 73 | YES | 53 | NO |  |  |
| 11 | 11 | F | 10 | YES | 51 | YES |  |  |
| 12 | 11 | F | 55 | YES | 63 | NO |  |  |
| 13 | 11 | F | 9 | NO | 8 | NO |  |  |
| 14 | 11 | M | 12 | YES | 21 | YES |  |  |
| 15 | 11 | F | 9 | NO | 37 | NO |  |  |
| 16 | 11 | F | 27 | YES | 61 | YES |  |  |
| 17 | 11 | M | 56 | YES | 72 | NO |  |  |
| 18 | 11 | M | 6 | NO | 7 | NO |  |  |
| 19 | 12 | M | 39 | YES | 60 | YES |  |  |
| 20 | 11 | M | 3 | YES | 52 | NO |  |  |
| 21 | 11 | M | 46 | YES | 62 | YES |  |  |
| 22 | 11 | F | 23 | YES | 58 | NO |  |  |


| PARTICIPANT | AGE | GENDER | QUESTION | ANSWER | QUESTION | ANSWER | QUESTION | ANSWER | QUESTION | ANSWER |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 12 | M | 45 | YES | 22 | N0 | 72 | N0 |  |  |
| 2 | 13 | F | 62 | YES | 57 | N0 | 55 | YES |  |  |
| 3 | 12 | F | 18 | N0 | 16 | N0 | 28 | YES |  |  |
| 4 | 13 | M | 71 | YES | 32 | YES | 12 | N0 |  |  |
| 5 | 12 | F | 29 | N0 | 10 | N0 | 26 | N0 |  |  |
| 6 | 13 | M | 14 | N0 | 4 | N0 | 1 | YES |  |  |
| 7 | 13 | F | 47 | N0 | 42 | YES | 7 | N0 | 62 | YES |
| 8 | 12 | F | 3 | YES | 21 | YES | 70 | N0 | 18 | N0 |
| 9 | 13 | M | 37 | N0 | 44 | YES | 61 | N0 |  |  |
| 10 | 12 | M | 27 | N0 | 47 | YES | 36 | N0 |  |  |
| 11 | 12 | M | 68 | YES | 75 | N0 | 19 | YES |  |  |
| 12 | 13 | M | 36 | YES | 40 | N0 | 52 | N0 |  |  |
| 13 | 12 | F | 34 | YES | 57 | N0 | 67 | N0 | 53 | YES |
| 14 | 12 | M | 31 | N0 | 50 | YES | 29 | YES | 60 | YES |
| 15 | 12 | M | 49 | YES | 23 | YES | 74 | N0 |  |  |
| 16 | 12 | M | 69 | N0 | 30 | N0 | 65 | YES |  |  |
| 17 | 12 | M | 34 | N0 | 71 | YES | 64 | YES |  |  |


| PARTICIPANT | AGE | GENDER | QUESTION | ANSWER | QUESTION | ANSWER | QUESTION | ANSWER |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 13 | M | 68 | NO | 50 | YES | 70 | NO |
| 2 | 13 | M | 29 | YES | 34 | YES | 74 | YES |
| 3 | 13 | F | 53 | YES | 40 | NO | 38 | YES |
| 4 | 13 | F | 37 | NO | 56 | NO | 65 | NO |
| 5 | 13 | M | 47 | YES | 40 | NO | 19 | YES |
| 6 | 14 | M | 30 | NO | 3 | YES | 13 | NO |
| 7 | 13 | M | 20 | YES | 27 | NO | 68 | YES |
| 8 | 14 | M | 69 | NO | 51 | YES | 5 | NO |
| 9 | 13 | M | 8 | NO | 62 | YES | 22 | NO |
| 10 | 14 | M | 25 | NO | 41 | YES | 11 | YES |
| 11 | 13 | M | 18 | NO | 21 | YES | 71 | YES |
| 12 | 13 | F | 14 | YES | 29 | YES | 9 | NO |
| 13 | 14 | M | 32 | YES | 56 | NO | 63 | NO |
| 14 | 14 | M | 7 | YES | 35 | YES | 62 | YES |
| 15 | 14 | F | 13 | NO | 52 | YES | 72 | YES |
| 16 | 13 | F | 4 | NO | 2 | YES | 70 | YES |
| 17 | 13 | F | 66 | YES | 47 | YES |  |  |
| 18 | 13 | F | 24 | YES | 53 | NO |  |  |

