MASTER'S THESIS

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Pilot study: „The International Neurocognitive Test Profile (INCP) - A tablet-based neurocognitive assessment battery: Assessing age effects"

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MASTERARBEIT

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Pilotstudie: „The International Neurocognitive Test Profile (INCP) - Eine Tablet-gestützte neurokognitive Testbatterie: Erfassung von Alterseffekten“

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Abstract

By 2050 we are expecting more than double the cases in Dementia in Austria than there are right now. To face this upcoming challenge promising pharmacological treatment is on the rise. But for the treatment to work best, an early application is essential, which in turn raises the demand for a valid and reliable screening tool. The International Neurocognitive Test Profile is being developed to do exactly that. It contains several tasks to measure functioning in the six neurocognitive domains (perceptual-motor function, language, executive function, learning and memory, social cognition, complex attention). It is conceptualized to be used at home by lay people on a tablet or comparable device. The current pilot study gives the first statistical data on the INCP 3.0 and identifies age effects in the Digit Symbol Test and Face Identification Test.

Keywords: Alzheimer's Disease, dementia, cognitive impairment, age effects

Abstrakt

Bis zum Jahr 2050 rechnet man mit mehr als der doppelten Fallzahl an Demenz Patient*innen in Österreich als zum jetzigen Zeitpunkt. Um dieser zukünftigen gesellschaftlichen Herausforderung gerechte zu werden, werden vielversprechende medikamentöse Behandlungen etwickelt. Um eine bestmögliche Behandlung zu gewährleisten ist ein frühzeitiger Interventionsbeginn essenziell. Das lässt die Nachfrage nach einem reliablen und validen Screening-Mittel steigen. Das International Neurocognitve Test Profile (INTP) wird entwickelt um dem Folge zu leisten. Die Testbatterie beinhaltet verschiedene Aufgaben um die sechs neurokogntivinen Domänen (Wahrnehmungs-Motorik, Sprache, Exekutivfunktion, Lernen und Gedächtnis, soziale Kognition, komplexe Aufmerksamkeit) zu messen. Es wurde so konzeptualisiert, dass es von Laien im eigenen Zuhause ausgeführt werden kann. Das ganze wird auf einem Tablet-Computer oder ähnlichem elektronischen Endgerät dargeboten. Die folgende Pilotstudie liefert die ersten statistischen Kennwerte zu den Subtests des INCP 3.0 und zeigt Alterseffekte beim Digit Symbol Test und Face Identification Test auf.

Schlüsselwörter: Alzheimer, Demenz, kognitive Störung, Alterseffekte

Contents

1 Theoretical background

Due to ever-evolving advancement in the field of medicine in industrialized countries life expectancy keeps increasing and the population demographics keep changing with it. With the growing representation of elderly people in our society we can also expect rising numbers in dementia cases. Currently we are facing 100,000 cases in Austria alone and the number of incidents is estimated to increase up to 230,000 by 2050, according to the Austrian Alzheimer's Association.

The most common cause for dementia is the Alzheimer's disease (AD), a neurodegenerative disease, that as of today is incurable. Newest research does not only try to redefine the definition of the disease, but also gives rise to a shift in the treatment course. The new definition is solely biomarker based and described by pathological blood levels of Amyloid beta and Tau-Protein (Rostamzadeh & Jessen, 2021) and has yet to withstand scientific evaluation.

Pathophysiology

ICD 10 criteria

The *International Statistical Classification of Diseases and Related Health Problem*s (ICD-10) classifies dementia as an organic psychological disorder. To fulfill the criteria for a diagnosis a patient must suffer from degeneration of multiple higher cortical functions like judgment, orientation, speech, memory, thinking, attention and so on. Further requirements are worsening in motivation, social behavior, emotional control, and impairments in daily activities (Dilling et al., 2000).

The *Diagnostic and statistical manual of mental disorders* (5th ed.) (DSM-5) has similar criteria but a bigger focus on memory function as it defines it as necessary diagnostical criterium. Either Aphasia, Apraxia, Agnosia, or disorders in executive functioning have to be present in such an extent, that work related, or social abilities are impaired. The DSM-5 also claims a duration of said deficits for at least six months (American Psychiatric Association, 2013).

Progression

The progression of the disease can be divided in different stages: the preclinical stage is characterized by subjective cognitive decline (SCD), which means that worsening in cognitive performance is only perceived by the affected person him- or herself (Jessen et al., 2014), it is followed by the prodromal phase of mild cognitive impairment (MCI). MCI describes a state in which one or more of the six neurocognitive domains (perceptual-motor function, language, executive function, learning and memory, social cognition, complex

attention) according to DSM-5 (American Psychiatric Association, 2013), is impaired and can be further classified in an amnestic (aMCI) or non-amnestic (naMCI) subtype. AMCI has a memory disorder as leading symptom. In naMCI a decline in one or more of the other mentioned cognitive domains acts as the main symptom, while memory is still intact. Finally, mild cognitive impairment can result in Alzheimer's disease (Rostamzadeh & Jessen, 2021).

Six neurocognitive domains. The DSM-5 (American Psychiatric Association, 2013) lists six neurocognitive domains. The first being complex attention that is comprised of processing speed and selective, divided, and sustained attention. Flexibility, inhibition, decision-making, planning, responding to feedback as well as working memory are summarized as executive functions. The language domain contains word fluency and finding, object naming, grammar and syntax and receptive language. Learning and memory contain the abilities of free recall, cued recall, long-term memory, implicit learning, recognition memory and semantic and biographical memory. Perceptual-motor function describes visual perception, visuoconstructional reasoning and perceptual-motor coordination. The remaining domain social cognition includes Theory of mind, insight and recognition of emotions (Sachdev et al., 2014).

Alzheimer's disease

The most common cause for dementia is the Alzheimer's disease (AD), a neurodegenerative disease, that as of today is incurable. Up to 60-70% of dementia cases are accountable for AD (Burns & Illife, 2009). Two pathological degenerations can be observed: extracellular amyloid deposits of abnormal Aß42-protein and Tau-protein deposits within the cells which cause degeneration of neurofibrils (Thal & Braak, 2004). The deposition starts at the neocortex and can be divided in four phases within the medial temporal lobe. The first Aß42-deposits emerge from allocortical nerve cells in the transentohirnal region and expand from there into further parts of the brain (Thal & Braak, 2004). Less than ten percent of the Dementia cases are due to genetic factors, the bigger majority suffers from a sporadic form (Esiri et al., 1997).

Psychological symptoms

On a psychological level the AD usually starts out with memory disorders, sometimes spatial orientation problems can be observed in early stages. The most impaired cognitive domain is the episodic memory. Difficulties remembering the last few hours, days and weeks occur, while memories from the far past remain mostly intact.

Spatial and temporal orientation suffer first from the memory impairment, later the situational orientation and finally the orientation to the own person.

Semantic memory issues occur as word-finding disorders, with further progression the language content depletes, the sentences shorten, and the grammar becomes faulty.

Writing and reading deficiencies are bothersome to patients because a disease insight is present at the early stages.

Mental arithmetic is soon dysfunctional, the same applies for cognitive skills that were acquired later in life.

Relatives start noticing changes when complex tasks cannot be solved anymore. Goal-directed attention, planning etc. becomes poor, additionally patients are more easily distracted. Apraxia symptoms often start showing when they affect tasks of daily life.

In later stages patients can develop psychomotor agitation and psychotic symptoms like hallucinations and delusions, this can only be partially explained due to the degeneration. It is assumed that premorbid personality traits, behavior from caregivers or somatic causes play a role in the development of mentioned symptoms. Psychotic changes are observed within 50% of cases. The symptoms subsequently lead to aggressive and agitated behavior. Depressive symptoms occur in early stages and decrease with progressing degeneration. The personality remains mostly stable even in far advanced stages (Lehrner et al., 2011).

Diagnostical approach

In order to diagnose dementia, especially AD, a series of examinations is necessary. First of all, the personal history of the patient has to be surveyed profoundly, this includes an external anamnesis from relatives or closely related persons. To achieve the necessary information standardized clinical interviews or established screening questionnaires like the Mini Mental Status Examination (MMSE) (Folstein, 1975) can be used (Lehrner et al., 2011). The information that should be gathered in all cases is the beginning and the development of the memory impairment, the influence of other cognitive disorders, behavioral and emotional changes, the perception of the disorder, other possible influences that may impair memory, daily demands and performance. In the spirit of a resource-oriented approach, existing resources and compensation strategies should also be identified (Karnath et al., 2014).

The neurological and psychiatric status has to be evaluated. The diagnostical process should include a neuropsychological evaluation. Additionally, blood tests including common parameters like the blood count, electrolytes, blood sugar levels, hormones etc., a cerebrospinal fluid testing (CFU) including Tau-Protein, Phospho-Tau-Protein, Amyloid ß42 Peptid and neuroimaging like MRI or CT are performed (Sturm, 2000). Especially neuroimaging is necessary to exclude other diagnosis like a pressure hydrocephalus or frontobasal meningioma, to detect present vascular alterations and to scan for temporal or

frontotemporal atrophy which is evidence for AD or frontotemporal dementia (Harper et al., 2015).

Neuropsychological Testing

The task of neuropsychologists in the diagnostic process is to determine the neurocognitive status using standardized psychometric tests. The neurocognitive profile is the basis for further treatment choices and should quantify the cognitive profile, differentiate between normal and pathological changes, exclude various differential diagnoses, especially depression, assess daily living skills, independence and judgment and evaluate therapy efficiency (Lehrner et al., 2011).

Neuropsychological Test criteria. Sturm and Hartje (2006) suggested eleven functional areas that should be covered by neuropsychological testing: perceptual performance, intellectual level and performance profile, memory function, attention, executive functions like planning, speech, spatial-perceptual, spatial-cognitive, and spatial-constructive performance, arithmetic, sensory-motor performance and motor planning, affectivity, and personality as well as job-dependent skills and domain-specific knowledge.

Selection criteria. Sturm and Hartje (2006) also define selection criteria for tasks for neuropsychological test batteries. The test procedures should cover all relevant psychological areas to answer the reason for the examination. Tests that are able to accurately differentiate between sub-functions of certain cognitive areas should be preferred. Whenever possible tests with the best test quality criteria like reliability, validity and objectivity should be chosen and aspects like reasonability should be kept in mind. In order to avoid practice, memory and learning effect tests with parallel versions are recommended. To keep ceiling and floor effect to a minimum too easy and too hard items should be excluded. Differentiated norms in regard to important person characteristics enable the best possible interpretation of the collected data. A patient's retest experience, impairments and disabilities should also be taken in account.

Treatment Courses

Prevention

Since the exact causes of dementia are still unknown there is only general advice for prevention: cardiovascular risk factors should be kept in check, cognitive, physical and social activities are recommended, and a Mediterranean diet should be implemented (Rostamzadeh & Jessen, 2021). Of immense importance are also regular dementia screenings, especially if MCI has already been diagnosed. In this case, the controls should be set even more closely. Psychoeducational measures are important when the diagnosis is communicated. The possible

prognosis should also be discussed. Occupational therapy and cognitive interventions are also recommended in this case (Rostamzadeh & Jessen, 2020).

Psychotherapeutic

There are also a few neuropsychological therapy methods which can be divided in three subgroups: functional therapy, compensation therapy, integrative therapy.

The aim of functional therapy is to improve memory function, the idea behind compensation therapy is to use aids, preserved cognitive abilities and psychological strategies to compensate the impairments in daily life, while integrative therapy wants to integrate patients with impairments back into society (Gauggel, 2003).

Pharmacological

As of now there is no drug that can cure AD nor dementia. Currently the most used drugs for treating mild and moderate AD are cholinesterase inhibitors (donepezil, rivastigmine, galantamine) (Birks, 2006). Inhibiting cholinesterase increases acetylcholine concentration in the synaptic clefts, this leads to an improvement of cognition and daily livings skills. The medication can halt the progression of the disease for about a year (Berlit, 2014). Memantine, a noncompetitive N-methyl-D-aspartate (NMDA) antagonist can be used for treating moderate to severe dementia (Gillette-Guyonnet et al., 2011).

Upcoming disease modifying pharmaceuticals show the best treatment results, when administered in early stages of the disease course, namely in the prodromal MCI phase, wide range neuropsychological dementia screening sees an unprecedented demand (Sabbagh et al., 2020).

Telehealth

Telehealth describes the distribution of health services and information through electronical devices and is becoming more and more important nowadays. The distribution of neuropsychological tests is also referred to as teleneuropsychology (Munro Cullum et al., 2014).

The research of Munro Cullum et al. (2014) that specifically focused on video teleconferencing (VTC) was already successful in demonstrating the reliability and feasibility of neuropsychological tests via VTC in healthy, impaired and older samples (Munro et al., 2006; Hildebrand et al., 2004) and as of recently, also strong evidence for the validity of teleneuropsychological testing surged (Wadsworth et al., 2018).

Computerized psychological testing shows benefits over the standard procedures like higher efficiency, validity, and cost-effectivity. The need for computerized neuropsychological assessment devices (CNADs) is big but should not outweigh a sound test

statistical evaluation, since research shows that the quality of standardization, psychometric data and application is still lacking (Gates & Kochan, 2015). One of the main goals of the present study was to generate and provide such data for the International Neuropsychological Test Profile (INCP).

INCP

Sabbagh et al. (2020) report, that in an expert meeting in 2019, clinical and research experts on MCI and AD have come to a consensus on proper ways to implement neuropsychological screening tools and have published their findings in a series of three papers. Deducing the information one possible solution for the urgent matter would be a tablet-based self-administered neurocognitive test battery.

The INCP follows all the above-mentioned guidelines, the prototype is currently in evaluation. It was developed for the use on a tablet computer since a study has shown that the usage is more intuitive and easier in comparison to standard computers for elderly people (Werner & Oberzaucher, 2012).

The current INCP is already in its third version. Over the time more and more subtests for the different cognitive domains were added, therefore sample sizes and data on the tasks differ currently.

Age effects

Literature shows that age is a common variable in psychological testing that tends to have an impact on achieved results. Normative studies for the neuropsychological tests for the Consortium to Establish a Registry for Alzheimer's Disease (CERAD) reported a significant negative influence of age on their measures (Welsh et al., 1994). Further studies of the Neuropsychological Test Battery Vienna (NTBV) a similar test battery to the INCP, but in paper pencil format, report significant negative age effects as well (Lehrner et al., 2007).

Heidinger and Lehrner (2020) made a pilot study in which they had a closer look on age and gender effects on two of the subtasks Flag Knowledge (FK) and Capital Knowledge (CK) of the INCP already. As expected, they reported significant age and gender effects on CK. Due to the unrepresentative sampling the explanatory power of that study was limited.

The results of Lehrner et al. (2017) also highlight statistically relevant negative age effects in scores of semantic tests that are also integrated in the INCP (Face Identification and City Identification Test) when split in groups according to the dementia stages.

Additionally, data from a retrospective data analysis relating the test and retest results of the Face and City Identification Test to the progression of different dementia levels showed a significant influence of the variable age in a multiple regression model. Furthermore, a

significant correlation was also found between age and the results of the Face Identification test at the different measurement time points (Holzer, 2020).

Research Question and Hypothesis

This pilot study aimed to achieve the first samples for the various subtasks of the INCP 3.0 and generate statistical data for them. Particular attention was paid to the review of age effects.

Hypothesis

H0: There are no significant age effects on achieved scores of the WCK/WFK/AVT/DST /FFT/TLT-S/WS-S/EST/TDT/FCT/SCT/INT/DICE/EFT/VVT/FACE/CITY/PCT.

H1: There are no significant age effects on achieved scores of the WCK/WFK/AVT/DST /FFT/TLT-S/WS-S/EST/TDT/FCT/SCT/INT/DICE/EFT/VVT/FACE/CITY/PCT.

H0: $\mu 1=\mu 2$

H1: $\mu 1\neq\mu 2$

Other statistical analysis is solely done exploratively.

Methods

Subjects

The study was approved by the Ethical Committee of the Medical University of Vienna. Only healthy controls (N = 140, 70 males and 70 females) in the age range of 18 to 100 years should have participated. The goal was to recruit 10 female and 10 male test participants for each decade in the given age range.

Participants had to be excluded, when one of the following criteria was met:

(a) known history of stroke

(b) known history of severe head injury

(c) known current mental diagnosis according to International classification of Disease (ICD-10) (Dilling et al., 2000)

(d) any known medical condition that lead to severe cognitive deterioration including renal, respiratory, cardiac and hepatic disease

(e) known diagnosis of dementia according to DSM-5 (American Psychiatric Association, 2013)

Sampling

Recruitment took place in and outside the Vienna General Hospital. Notices were posted to draw attention to the study and appointments were then coordinated. In the hospital itself, the accompanying persons of the regular patients of the dementia outpatient clinic were recruited for the study. Furthermore, friends and relatives were tested, and the study was advertised via social media.

Measures

Demographic Data

To perform the statistical analysis certain demographic data had to be collected of all participants. Data on age, gender and education was needed. The absolute number of years acted as indicator for age and education. Gender was assessed by self-disclosure.

Screening

Since one requirement for participation was the absence of cognitive impairment the Vienna Visuo-Constructiv Test (VVT-3.0) (Valencia & Lehrner, 2018) was used as screening tool. A score of at least 9 in the immediate screening condition had to be reached to take part in the study.

Other screening measures are directly administered on the tablet:

Wortschatztest (WST-IQ). The WST-IQ was used to assess verbal intelligence and speech comprehension. It is also usable for assessing the premorbid intelligence level before mild or medium organic brain decay. It has a split-half reliability of r=.95 and internal consistency of (Cronbachs Alpha) α = .94 (Schmidt & Metzler, 1992). The cut-off for inclusion was set to an IQ over 85.

Beck-Depressions-Inventar Revision (BDI-II). The BDI-II can be used to assess the severity of depression from an age of 13 and upwards. The test has a Cronbachs Alpha α=.90 in a healthy subpopulation and an α=.92 in a subpopulation with diagnosed depression, it also highly correlates with external and self-assessment (Hautzinger, Keller & Kühner, 2006). The test was implemented to check for depression within the study group. A BDI-II score of 13 or lower is required for inclusion.

The Inernational Neurocognitive Profile (INCP)

The neurocognitive profile is capable of measuring five (executive function, memory, language, attention, social cognition) of the six cognitive domains proposed in the DSM-5 (American Psychiatric Association, 2013). The INCP was administered on an Apple iPad and consisted of following subtests:

World Capital Knowledge (WCK). In the first condition of World Capital Knowledge (WCK) a capital is shown, the corresponding country has to be chosen between a given choice of two possible countries. The INCP 3.0 presents 20 different capitals. There are three rounds that have to be completed. The score range is therefore zero to 30. This task should measure memory skills.

World Capital Free Recall (WCFR). After a delay of about 15 minutes the second condition of the World Capital Knowledge (WCK) Test should be done. It is a free recall condition in which the participant has to recall all shown capitals from the previous condition. The highest reachable score is 20. This task should measure memory skills.

World Capital Recognition (WCREC). The third and last condition of the WCK is a recognition task. In this condition the participant is shown a mix of all 20 previously shown capitals and the same number of new ones. The score is the amount of correctly recognized capitals minus the amount of failures, the highest possible sum is therefore again 20. This task should measure memory skills.

World Flag Knowledge (WFK). The world Flag Knowledge (WFK) Test works in a similar manner to the WCK. Instead of capitals, flags are presented. The task is then again to identify the corresponding country from two possible choices. The current version, the INCP 3.0 presents 20 different flags. There are three rounds that have to be completed. The score range is therefore zero to 60. This task should measure memory skills.

World Flag Recognition (WFREC). The second condition of the WFK is a recognition task. In this condition the participant is shown a mix of all 20 previously shown flags and the same number of new ones. The score is the amount of correctly recognized capitals minus the amount of failures, the highest possible sum is therefore 20. This task should again measure memory skills.

Auditory Vocabulary Test (AVT). In this subtest the participant has to listen to a voice saying words, that are either real or made up, the task is to identify the words are real words from the German language. The participants are confronted with 100 items, this means that the highest reachable score is 100. This task should measure language skills.

Digit Symbol-Test (DST). A neuropsychological test with a high sensitivity for brain damage and dementia. The task is to pair symbols and number according to a given template (Lezak, Howieson & Loring 2004). There is a time limit of 60 seconds for this subtest. In total three rounds have to be completed. This task measures attention.

Figure Fluency Test (FFT). In this test the participants have to connect dots to create unique patterns within a square of dots and lines. The goal is to create as many unique figures

as possible in a given time frame of three minutes. The score is the sum of all unique figures. This subtest is used for neuropsychological diagnostic of executive function.

Traffic-Light-Test short (TLT-S). This test confronts the participant with a traffic light with either a shining green or red light. In the first round a “go”-button hast to be pressed when the green light is on and a “stop”-button when the red one is on. In a second round the instructions are switched, the “go”-button has to be pressed when the red light appears, and the “stop”-button has to be pressed when the green light is on. The task should be done as fast as possible. The score is the total number of correctly pressed “go”- “stop”-buttons. This task is also meant for measuring executive skills.

Word Scramble – short (WS-S). In this test letters a presented in a random order. The task is to bring them in the correct order to form a German word. The words can be nouns, verbs, pronouns, adverbs, and numerals. The score is the sum of found words. This test measures language skills.

Equation Solving Test (EST). In this task the participant will be confronted with equations and two possible solutions. The correct one must be chosen. The amount of presented items is 32. The reachable score is 32. The equations rank from easy to complex and are included for measuring executive function.

Time-Duration-Test (TDT). This subtest asks the participant to look at a geometric figure, afterwards the same figure is presented again and the participant must press it for the same amount of time it was previously shown. The score is the sum of the absolute differences between the time units presented and the time units given by the test person, given in seconds with two decimal places. The lower the value, the more accurate the time estimate. This subtest also measures executive skills.

Faces-Couples-Test (FCT). In this task pictures of faces have to be matched according to given rules to form couples. The total score for this task is the sum of the achieved points from all three conditions.

Faces Couples Test-Forced Choice Two Alternative Immediate Recognition (FCT-FCTAIR). In the first condition the participant has to watch pairs of pictures (a male and a female face) twice. Afterwards only one of the pairs is shown. The task is to pick the correct one between two pictures to form the previously shown couple. The participant also receives feedback if the task was solved correctly: a red frame indicates a correct answer and a red frame indicates a wrong one. There are two rounds with 20 faces each, therefore the highest score is 40. This task should measure memory skills.

Faces Couples Test-Forced Choice Six Alternative Delayed Recognition (FCT-FCSADR). In this condition one picture of the previously shown couples are presented again, but this time with a time delay and a choice of six different faces. The reachable score is the sum of all correct answers. The FCT-FCSADR measures memory skills.

Faces Couples Test Recognition (FCT-REC). In the third condition of the FCT the previously shown pictures are mixed with completely new ones. The participant has to decide if the shown picture is new or if it was shown in the conditions before. The score is the number of correct answers minus the number of wrong answers.

Story Comprehension Test (SCT). In the Story Comprehension Test (SCT) the participant has to read stories and answer questions afterwards. One trial of the SCT consists of 30 stories, which means that the highest score is also 30. This is another task to evaluate memory skills.

Image Naming Test (INT). In this task a picture of an object is shown and two possible answers. To solve this task the correct naming of the presented object has to be picked. 100 pictures are shown, which equals a possible score of 100. This task measures memory skills.

Dice 2-n Back (DICE). This task for measuring executive skills shows a row of dices. Each round the row moves on dice to the left, this results in one dice being covered and a new one being in the middle. The participants have to decide if the value on the dice that was covered and the dice in the middle position are the equal or unequal. The score is the sum of all right answers minus the sum of the wrong answers, the highest score is 50.

Emotion Face Test short (EFT-S). In this task a “happy” and a “sad” face are presented. There is also a “happy”- and a “sad”-button. The task is to press the corresponding button as fast as possible. In a second round the condition is changed: when the “happy” face is shown, the “sad”-button has to be pressed, when the “sad” face is presented the “happy”-button has to be pressed. The score is the sum of right answers. This task should measure emotional ability.

Verbal Vocabulary Test (VVT). This subtest works in a similar manner to the AVT. For this task, the same items are used as well. The difference is that instead of hearing the words, the words are written. To solve this assignment the real German words have to be identified again. The Verbal Vocabulary Test hast 100 items. The highest score is 100. This task should also measure language abilities.

Face Identification Test (FACE). This is a multiple-choice task. The picture of a famous person from the past century is shown with four possible answers. The participant has

to pick the right one. This test has 16 items. The score is the number of right answers. This is another task for measuring memory. Previous studies have already established that there are significant differences in outcomes between patients with preclinical and clinically relevant expressions of cognitive impairment (Tahmasebi et al., 2019)

City Identification Test (CITY). In this task the participant simply has to identify to which country a capital city from a selection of four countries belongs to. A Cronbach's alpha of the paper and pencil version of α=.80 (Lehrner, 2001) was reported. Previous studies could establish that there are significant differences in outcomes between patients with preclinical and clinically relevant expressions of cognitive impairment for the City Identification Test as well (Tahmasebi et al., 2019).

Pattern Cancel Test (PCT). The Pattern Cancel Test (PCT) shows squares which are divided in four sections. Some of the sections are colored black, while others remain white. One of these squares is the key item, underneath are more of similar and same squares. The participant has to choose all squares which are the same as the key item. The highest score is 16. This task is another test for measuring attention.

Protocolling

A record sheet was created and filled out for each participant. The participant IDs, the initials, test and birth dates were noted for assignment purposes. The screening results and the remaining inclusion and exclusion criteria were documented as well. In addition, there was a checklist for the test procedure.

Materials and Software

The letters of consent and VVT-3.0 were presented in paper and pencil form. The study protocol was also documented on paper.

The INCP was presented on an Apple iPad (7th generation/2019) with a screen size of 10,2 inch, which has previously shown good usability (Werner & Oberzaucher, 2012).

IBM SPSS is a statistical and analysis software and enjoys great popularity in the scientific community because of the extent of possible procedures and the user-friendliness. In this study, SPSS version 24.0 was used for the statistic analysis of the collected data.

Results

Overall Sample

In total a sample size of N = 279 was reached. 55 participants had to be excluded due to missing demographic data (age, sex, years of education). Another 26 participants were excluded because they denied signing the informed consent. 25 data sets were excluded

because the VVT-3.0 scores were beneath the set cut-off. Further 41 participants had an WST-IQ score below 85 or no WST-IQ score at all and were therefore excluded as well. Finally, 15 people with BDI-II scores above the cut-off had to be excluded. The final sample size for the statistical analysis was N = 117. Figure 1 shows the exclusion process within a flow chart.

Of the 117 left participants n = 71 identified as female (60.7 %) and n = 46 (39.3 %) selected male as their sex. The mean age was 41.18 years (SD = 17.98), the age range was from 18 to 85 years. The mean years of formal education were 16.14 (SD = 4.1) and ranged from eight to 27 years.

The included participants had a mean of 9.86 points in the VVT-3.0 (SD = .35), the WST-IQ scores ranged from 89 to 129 with a mean of 108.4 (SD = 8.56) and BDI-II scores of 4.38 (SD = 3.6) within a range from zero to 13.

Table 1 lists all the subtests with the corresponding sample sizes and age distribution.

Figure 1

Flowchart of sample reduction

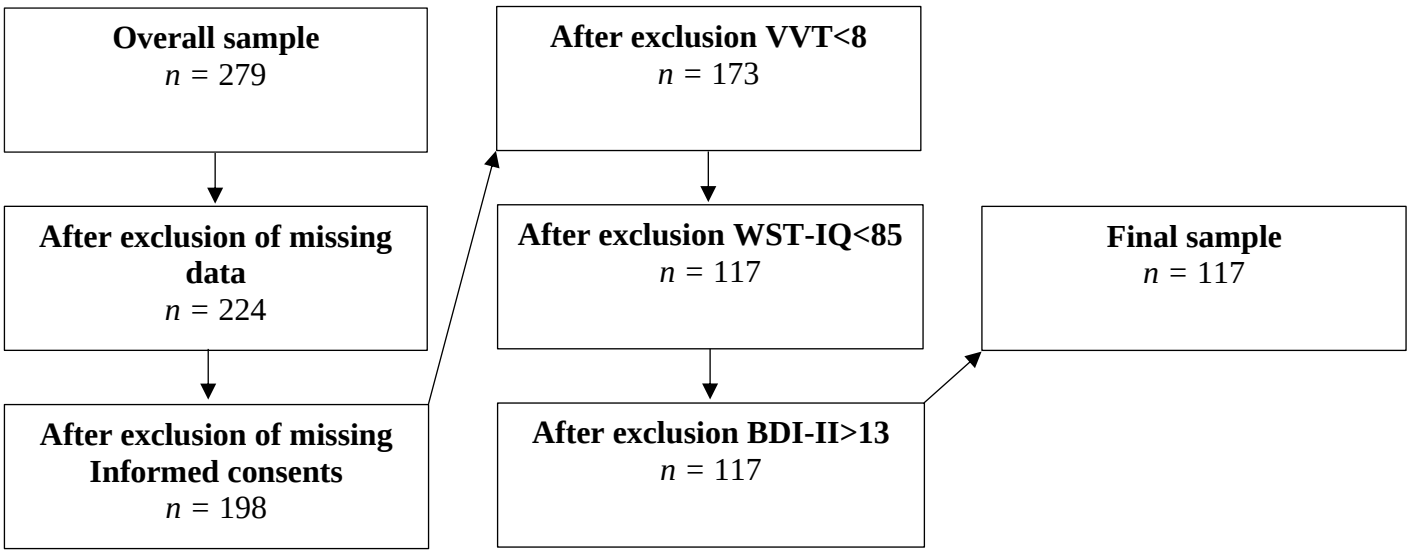


Table 1

Overview all individual samples including age

Test	*N*	M_{age}	SD_{age}	range
WCK	114	41.04	18.11	18 – 85
WFK	87	42.37	18.34	19 – 85
AVT	113	40.88	18.1	18 – 85
DST	75	39.73	17.08	22 – 85
FFT	85	39.42	17.08	18 – 80
TLT-S	98	37.45	16.34	18 – 85
WS-S	88	38.38	17.41	18 – 85
EST	105	39.33	17.3	18 – 85
TDT	99	38.38	17.16	18 – 85
FCT	31	39.9	16.89	21 – 79
SCT	57	39.25	16.26	18 – 79
INT	99	38.43	16.59	18 – 75
DICE	94	37.11	15.72	18 – 79
EFT	101	38.95	17.13	18 – 80
VVT	92	41.05	18.15	18 – 85
FACE	107	40.1	17.31	18 – 80
CITY	109	39.77	17.28	18 – 85
PCT	34	41.21	17.05	19 – 76

Note. *N* = sample size, *M* = mean, *SD* = standard deviation, range = min. – max. manifestation on scale

World Capital Knowledge (WCK)

Sample

Due to missing data three persons had to be excluded which led to a sample size of *N* = 114 for the World Capital Knowledge (WCK) Test. Remaining were *n* = 70 female (61.4 %) and *n* = 44 (37.6 %) male participants. The mean age was 41.04 years (*SD* = 18.1), the age range was from 18 to 85 years. The mean years of formal education were 16.11 (*SD* = 3.95) and ranged from eight to 27 years.

Three persons did not complete the second task, that leads to a sample size of *N* = 110 in the World Capital Free Recall (WCK-WCFR) and one person of the overall sample did not

complete the third task, which leaves a sample of N = 113 for World Capital Recognition (WCK-WCREC).

Descriptive Statistics

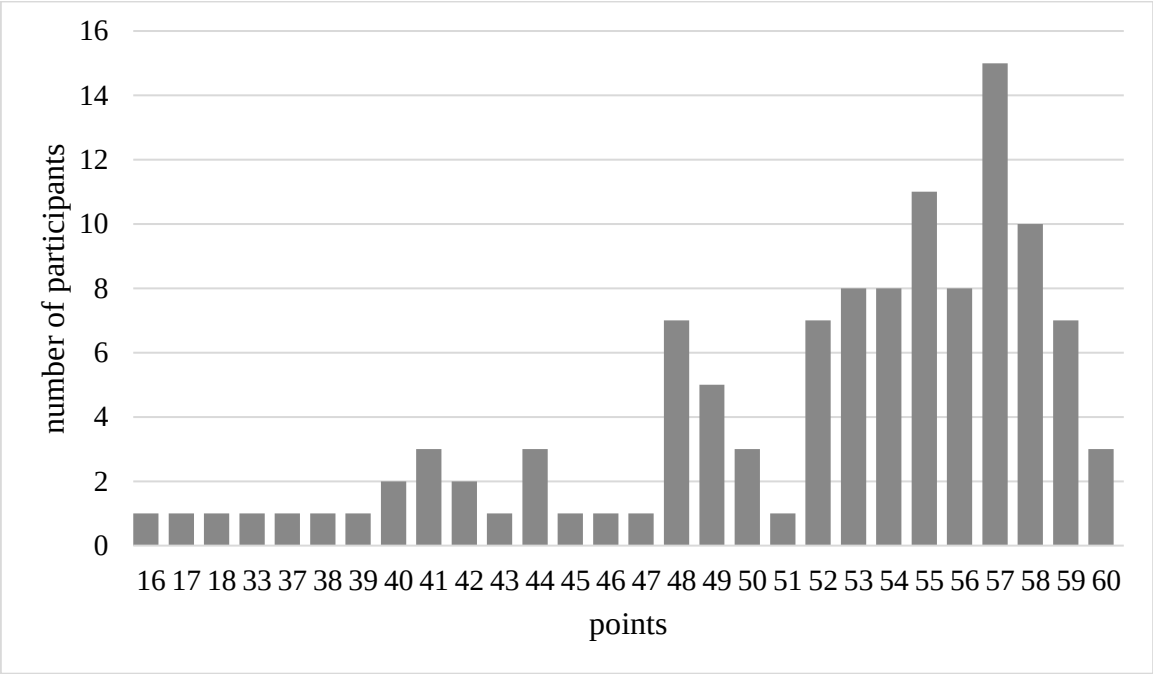
The mean of achieved points in the first condition (WCK) was 51.59 (SD = 8.17) of possibly reachable 60 points. The scores ranged from a minimum of 16 points to a maximum of 60 points.

Figure 2 shows the distribution of achieved points in the subtest.

Appendix B.1a, B.1.b and B1.c give further information on the items, especially the frequencies of presentation (N) and the means (M), which equal the item difficulties since they are coded 0 (false) and 1 (correct).

Figure 2

WCK – point distribution



Limitations

Since the items of the World Capital Knowledge were chosen randomly from an item pool, there is not enough data on the individual items to perform further statistical analysis. Future studies with bigger samples are needed to assess item reliabilities as well as item difficulties, afterwards the World Capital Knowledge Test can be evaluated for age effects.

World Flag Knowledge (WFK)

Sample

The sample size of the World Flag Knowledge (WFK) Test was reduced to *N* = 87. The mean age of the smaller sample was 42.37 years (*SD* = 18.34) with a range of 19 to 85 years. Within the sample *n* = 54 (62,1 %) were female and *n* = 33 (37.9 %) were male. The mean of school years was 15.77 (SD = 3.73) and ranged from eight to 27 years.

The second condition World Flag Knowledge Recognition (WFREC) was completed by 75 people.

Descriptive Statistics

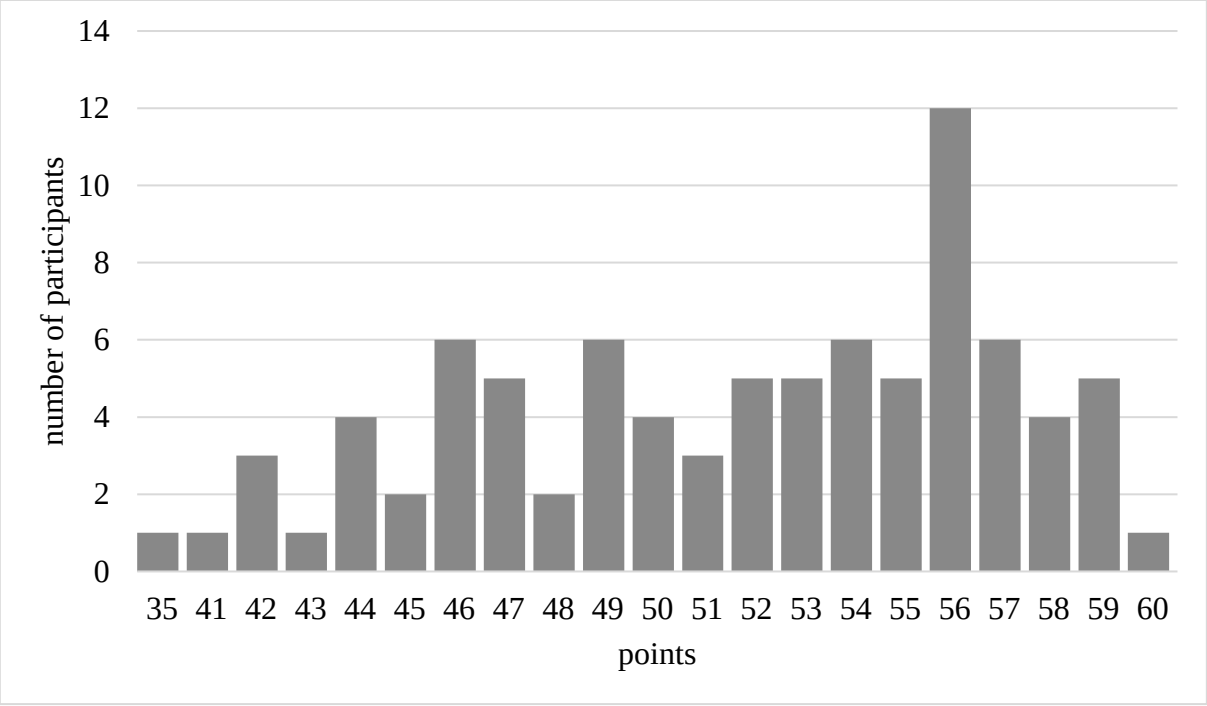
The minimum of reached points in the first condition (WFK) was 35 and the maximum is 60, the mean was 51.61 (*SD* = 5.33).

Figure 3 shows the point distribution of the first condition.

Appendix B.2a, B.2.b and B2.c give further information on the items, especially the frequencies of presentation (N) and the means (M), which equal the item difficulties since they are coded 0 (false) and 1 (correct).

Figure 3

WFK – Point distribution



Limitations

Since the items of the World Capital Knowledge were chosen randomly from an item pool, there is not enough data on the individual items to perform further statistical analysis. Future studies with bigger samples are needed to assess item reliabilities as well as item difficulties, afterwards the World Flag Knowledge Test can be evaluated for age effects.

Auditory Vocabulary Test (AVT)

Sample

The sample size of the Auditory Vocabulary Test (AVT) was N = 113, with n = 69 (61.1 %) female and n = 44 (38.9 %) male participants. The mean age was 40.88 years (SD = 18.1), the range was 18 to 85 years. School years ranged from eight to 27 with a mean of 16.13 years (SD = 4).

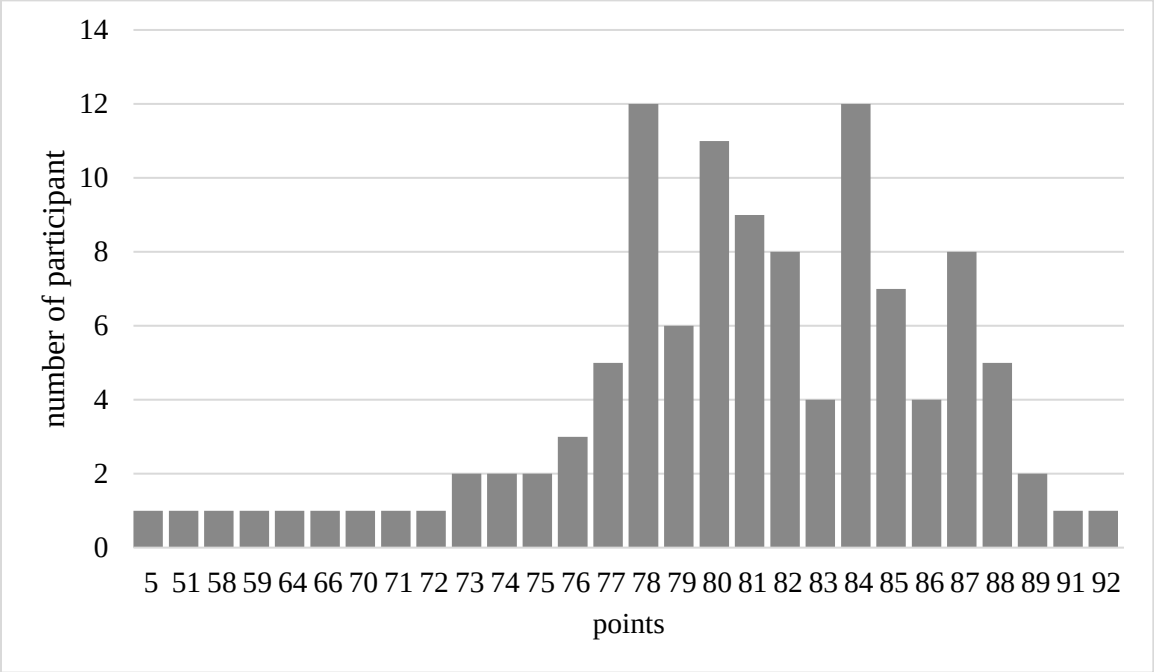
Descriptive Statistics

The mean score of the AVT was 79.86 (SD = 9.5) with a range of five to 92 withing a possible range of zero to 100. Figure 4 shows the point distribution.

Appendix B.3 gives further information on the items, especially the frequencies of presentation (N) and the means (M), which equal the item difficulties since they are coded 0 (false) and 1 (correct).

Figure 4

AVT – point distribution



Limitations

Since the items of the World Capital Knowledge were chosen randomly from an item pool as well, there is not enough data on the individual items to perform further statistical analysis. Future studies with bigger samples are needed to assess item reliabilities as well as item difficulties, afterwards the AVT can be evaluated for age effects.

Digit Symbol Test (DST)

Sample

For the Digit Symbol Test (DST) we have a sample of N = 75 with full data sets. Of the 75 participants n = 42 were women (56 %) and n = 33 (44 %) were men. The mean age was calculated with 39.73 years (SD = 17.8) and ranged from 22 to 85 years. The mean age of school years was 16 years (SD = 3.9) and a range of eight to 26 years.

Descriptive Statistics

In the sample the mean points reached in the task over the three rounds were 67.61, the (SD = 13.9) points ranged from 28 to 92.

Age Effects

To check for the hypothesis if age effects are present a linear regression was calculated. Due to the violation of normal distribution bootstrapping was performed.

The results of the analysis are given in table 2. The predictor age turned out to be significant and explains 57 % (R^2 = .57) of the variance of the criterium. Figure 5 shows a scatter plot of the point distribution.

Table 2

Results of linear regression

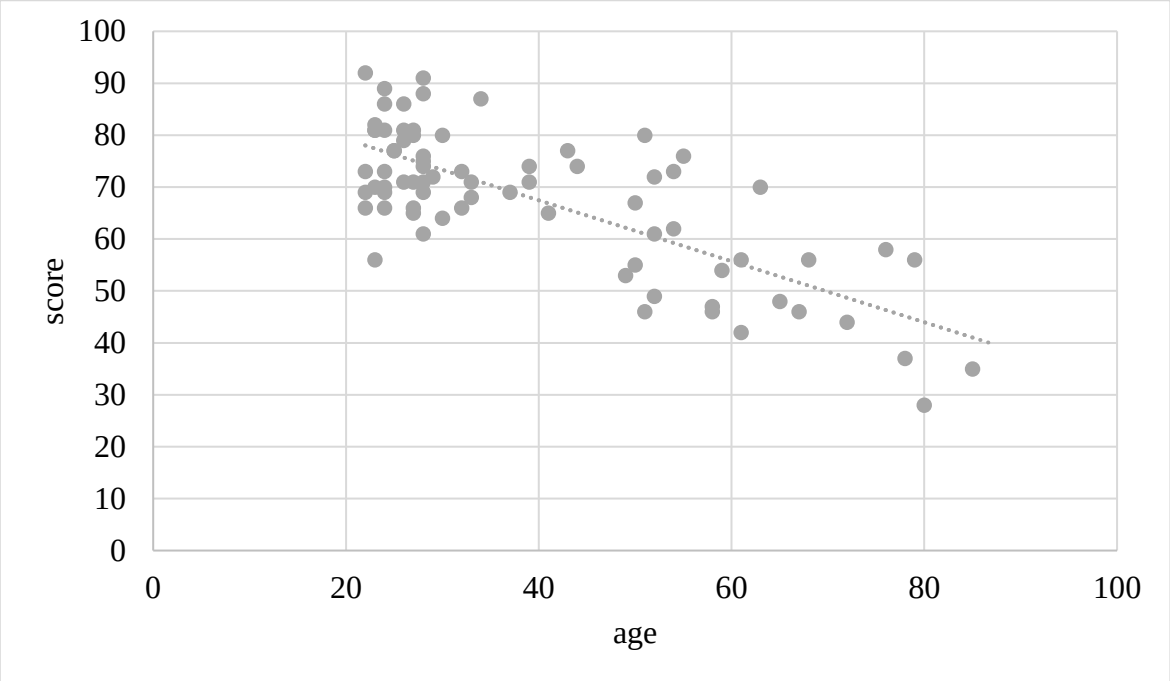
Predictor	B[a]	SE_B[a]	t	*p*
constant	90.95	2.64	34.76	<.001
	[85.78, 96.3]			
age	-.59	0.07	-9.76	<.001
	[-0.71, -0.45]			

Note. R^2 = .57, (n = 75, p < .001)

[a] confidence intervals and standard error via BCa bootstrapping, based on 1000 bootstrap samples.

Figure 5

DST – scatter plot



Limitations

Due to the not given normal distribution it's difficult to generalize the data, although bootstrapping was performed to take this in account.

Figure Fluency Test (FFT)

Sample

The sample size of the Figure Fluency Test (FFT) was N = 85, with n = 52 (61.2 %) female and n = 33 (38.8 %) male participants. The mean age was 39.42 years (SD = 17.8), the range was 18 to 80 years. School years ranged from eight to 27 with a mean of 16.13 years (SD = 3.8).

Descriptive Statistics

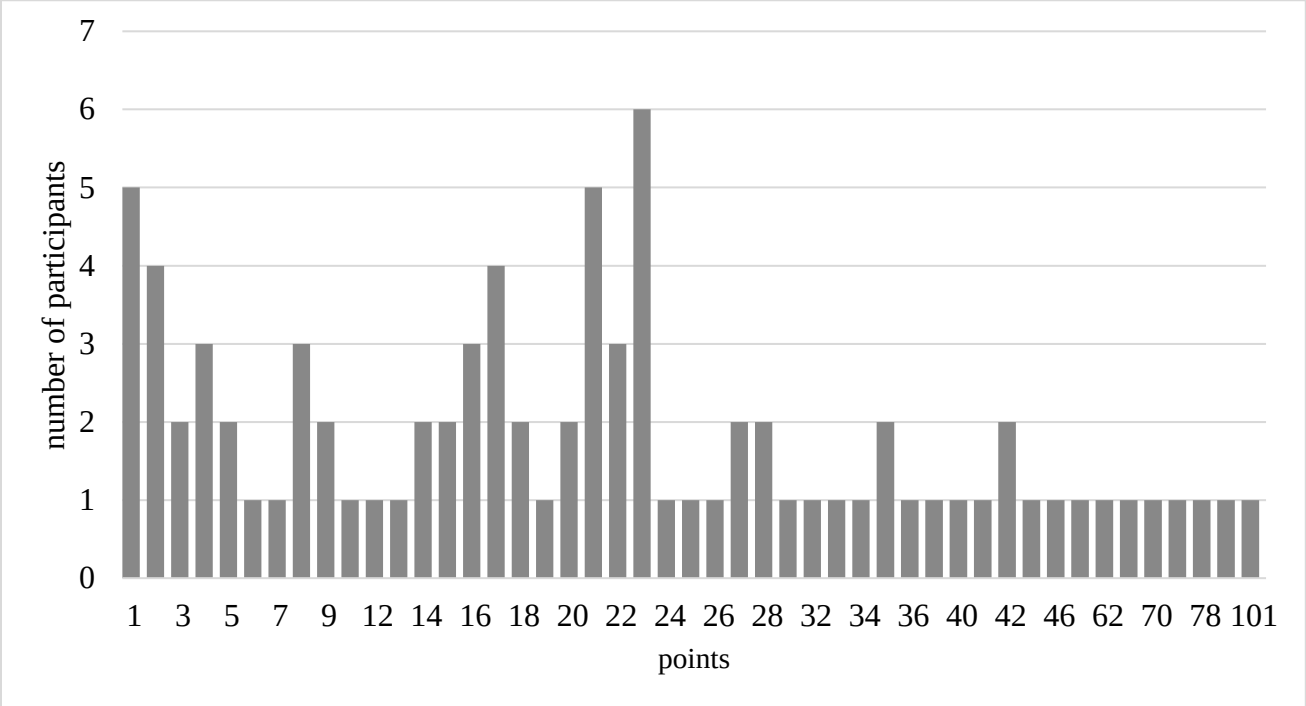
The mean score of the FFT was 23.74 (SD = 20.74) with a range of one to 101. Figure 6 shows the point distribution.

Spearman Correlation

Since the data has no normal distribution a Spearman Correlation was performed to check for the connection between age and the achieved scores. The calculated correlation was r = -.52 with a 2-tailed significance of p < .000.

Figure 6

FFT – point distribution



Limitations

The data is nonlinear and not normally distributed therefore a linear regression could not be modeled.

Traffic Light Test – short (TLT-S)

Sample

Seven outliers had to be excluded due to unreasonably low scores, it has to be assumed, that the participants did not read or understood the task description. Afterwards the sample size of the Traffic Light Test – short (TLT-S) was N = 97. The mean age of the sample was 37.45 years (SD = 16.34) with a range of 18 to 85 years. Within the sample n = 60 (61,9 %) were female and n = 37 (38.1 %) were male. The mean of school years was 16.43 (SD = 3.85) and ranged from eight to 27 years.

Descriptive Statistics

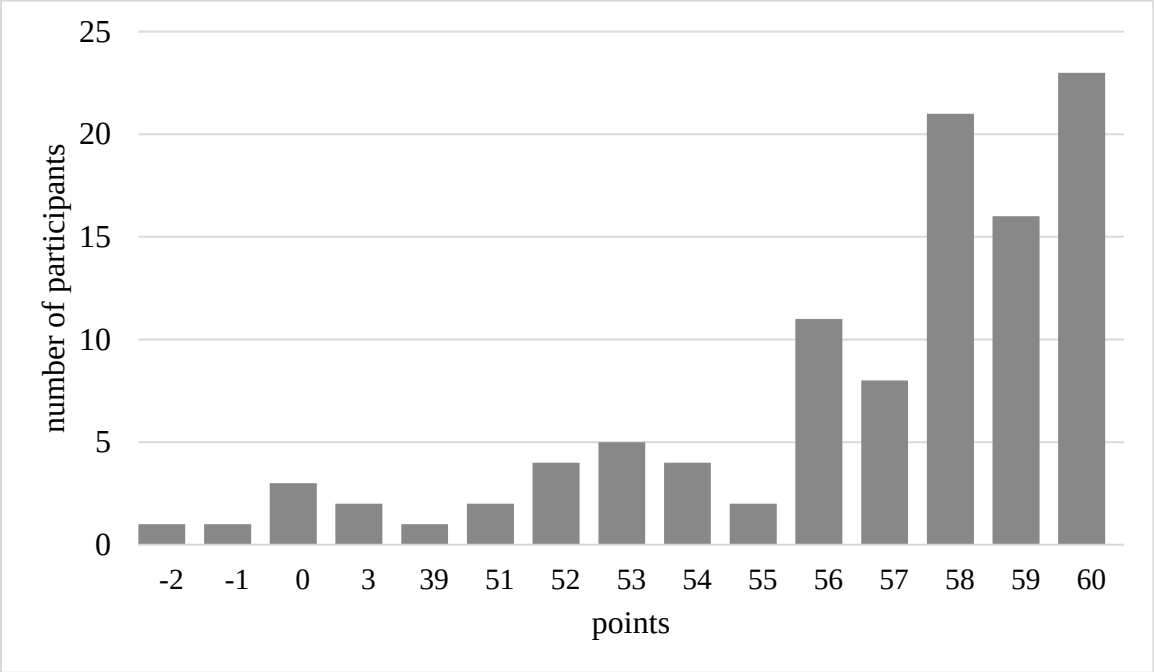
The minimum of reached points was 39 and the maximum is 60, the mean was 57.26 (SD = 3.09). Figure 7 shows the point distribution.

Spearman Correlation

Since the data has no normal distribution a Spearman Correlation was performed to check for the connection between age and the achieved scores. The calculated correlation was r = -.12 with a 2-tailed significance of p = .235.

Figure 7

TLT-S – point distribution



Limitations

No linearity and no normal distribution were given.

Word Scramble – short (WS-S)

Sample

The sample size of the Word Scramble – short (WS-S) test was N = 88, n = 56 (63.6 %) participants were female and n = 32 (36.4 %) were male participants. The mean age was 38.38 years (SD = 17.41), the range was 18 to 85 years. School years ranged from eight to 27 with a mean of 16.41 years (SD = 3.85).

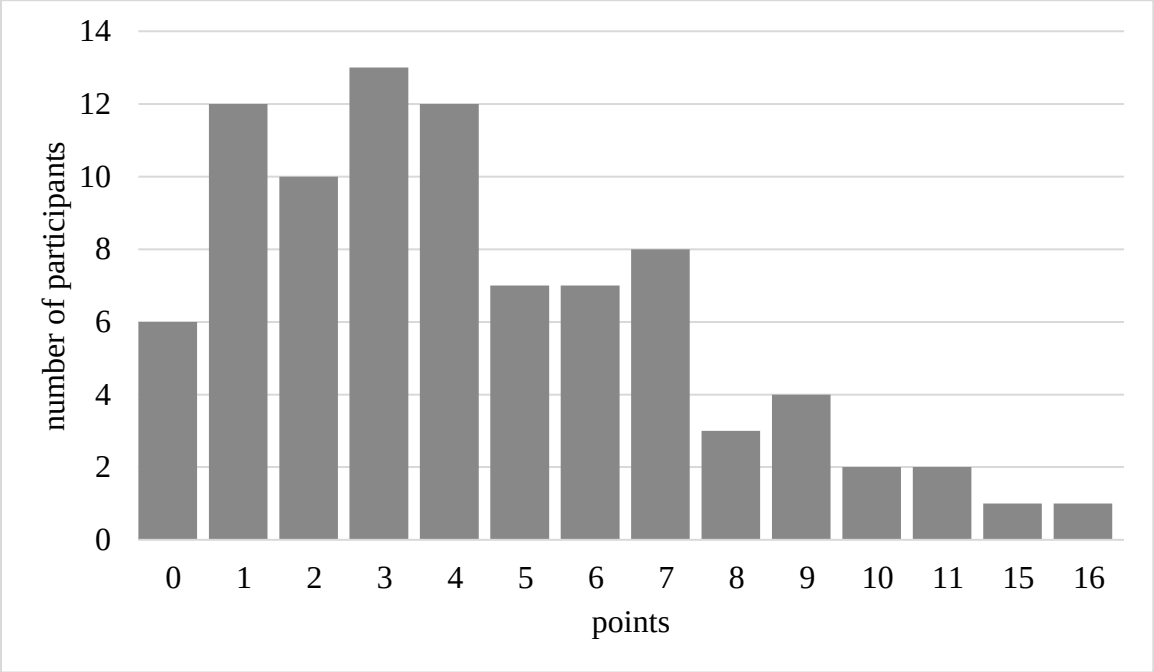
Descriptive Statistics

The mean score of the Word Scramble-short (WS-S) Test was 4.38 (*SD* = 3.28) with a range of zero to 16 within a possible range of zero to 16. Figure 8 shows the point distribution.

Appendix B.4 gives further information on the items, especially the frequencies of presentation (N) and the means (M), which equal the item difficulties since they are coded 0 (false) and 1 (correct).

Figure 8

WS-S – point distribution



Limitations

Since the items of the World Capital Knowledge were chosen randomly from an item pool, there is not enough data on the individual items to perform further statistical analysis. Future studies with bigger samples are needed to assess item reliabilities as well as item difficulties, afterwards the WS-S can be evaluated for age effects.

Equation Solving Test (EST)

Sample

The total sample of the Equation Solving Test (EST) had a size of *N* = 105. Of the 105 people *n* = 67 (63.8 %) were female, *n* = 38 (36.2 %) were male. The mean age was 39.33 years (*SD* = 17.3), the range was 18 to 85 years. School years ranged from eight to 27 with a mean of 16.23 years *(SD* = 3.8).

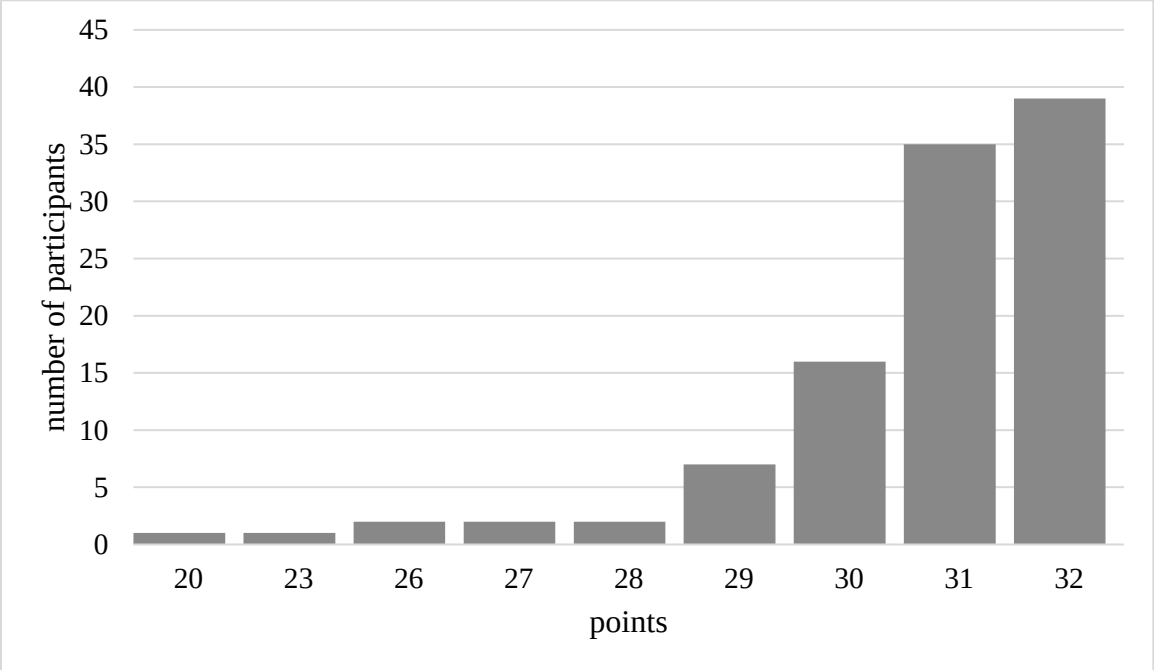
Descriptive Statistics

The reached mean score of the Equation Solving Test (EST) was 30.68 (*SD* = 1.85). The range of the scores was 20 to 32 points. Figure 9 shows the point distribution.

Appendix B.5 gives further information on the items, especially the frequencies of presentation (N) and the means (M), which equal the item difficulties since they are coded 0 (false) and 1 (correct).

Figure 9

EST – point distribution



Limitations

Since the items of the World Capital Knowledge were chosen randomly from an item pool, there is not enough data on the individual items to perform further statistical analysis.

Future studies with bigger samples are needed to assess item reliabilities as well as item difficulties, afterwards the EST can be evaluated for age effects.

Time Duration Test (TDT)

Sample

For the Time Duration Test (TDT) we have a sample of N = 99 with full data sets. Of the 99 participants n = 63 were women (63.6 %) and n = 36 (36.4 %) were men. The mean age was calculated with 38.38 years (SD = 17.16) and ranged from 18 to 85 years. The mean age of school years was 16.31 years (SD = 3.78) and a range of eight to 27 years.

Descriptive Statistics

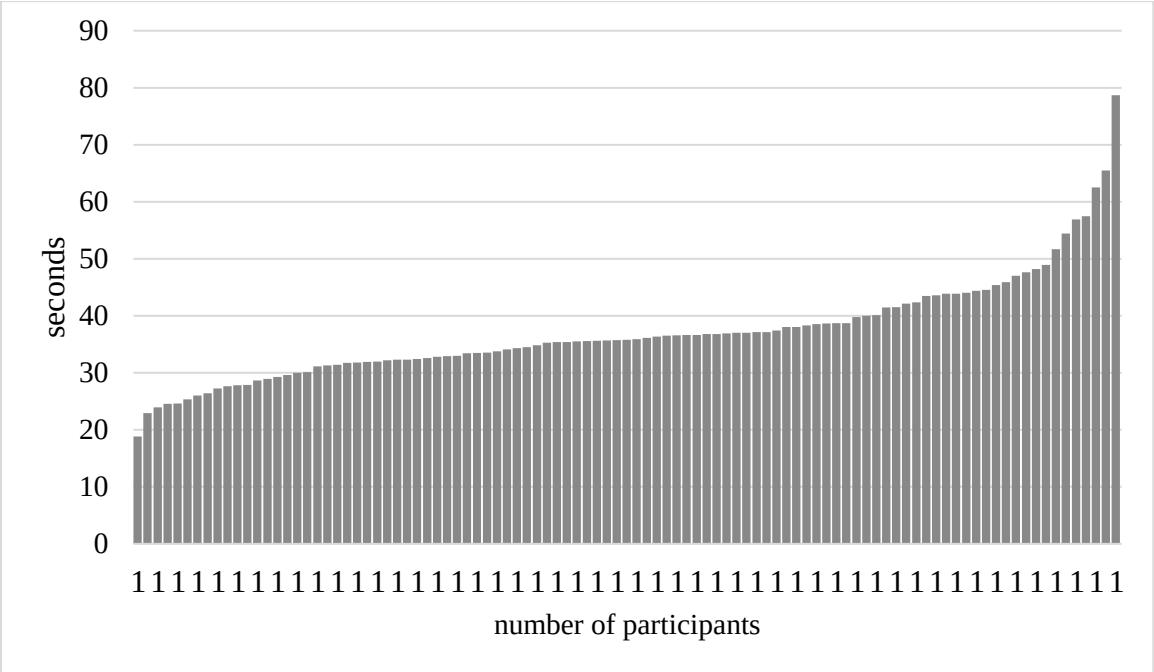
In the sample the mean score was 37.16 seconds, the (SD = 9.13) points ranged from 18.85 to 78.67 seconds. Figure 10 shows the point distribution.

Spearman Correlation

Since the data has no normal distribution a Spearman Correlation was performed to check for the connection between age and the achieved scores. The calculated correlation was r = .16 with a 2-tailed significance of p = .104.

Figure 10

TDT – point distribution



Limitations

No linearity and no normal distribution were given.

Faces Couples Test (FCT)

Sample

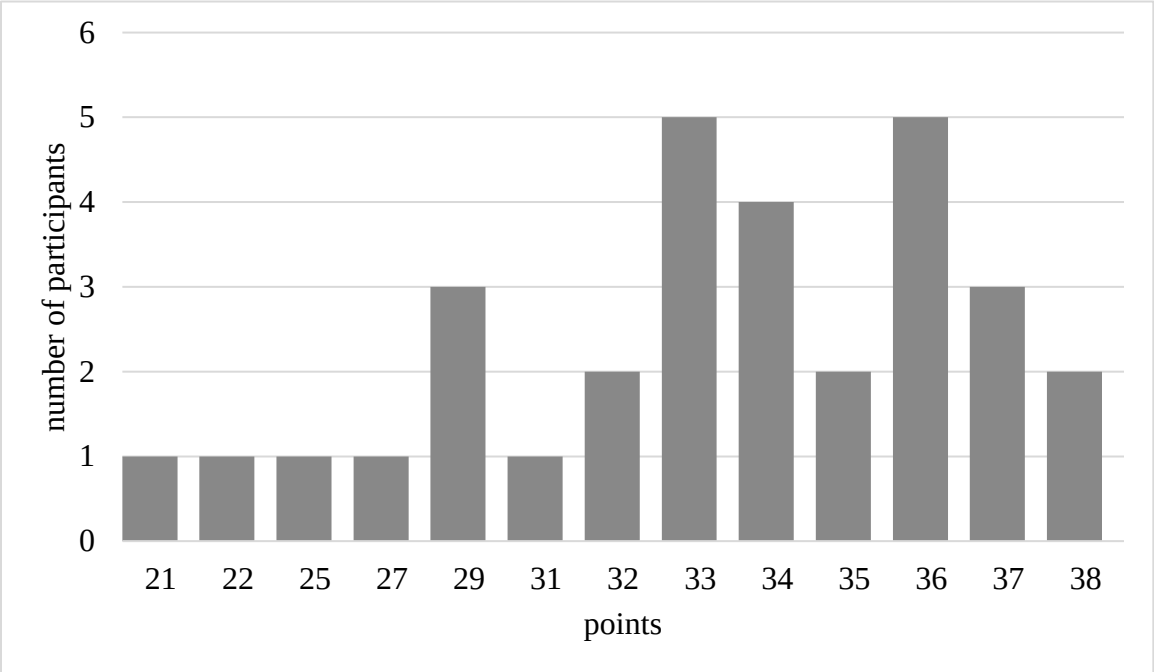
The achieved sample size for all three conditions of the Faces Couples Test (FCT) was *N* = 31. In the sample were *n* = 16 female (51.6 %) and *n* = 15 (48.4 %) male participants. The mean age was 39.9 years (*SD* = 16.89), the age range was from 21 to 79 years. The mean years of formal education were 15.9 (*SD* = 3.97) and ranged from eight to 23 years.

Descriptive Statistics

The mean of achieved points in the first condition (FCT-FCTAIR) was 32.74 (*SD* = 4.37) of possibly reachable 40 points. The scores ranged from a minimum of 21 points to a maximum of 38 points.

Figure 11

FCT-FCTAIR – point distribution



Limitations

Since the items of the World Capital Knowledge were chosen randomly from an item pool, there was not enough data on the individual items to perform further statistical analysis. Future studies with bigger samples are needed to assess item reliabilities as well as item difficulties, afterwards the World FCK can be evaluated for age effects.

Story Comprehension Test (SCT)

Sample

Due to the much later implementation of the Story Comprehension Test (SCT) the sample size was only N = 57, n = 31 (54.4 %) participants were female, n = 26 (45.6 %) were male. The age ranged from 18 to 79 with a mean of 39.25 years (SD = 16.26). The mean of school years was 16.7 (SD = 4) and had a range of 8 to 26 years.

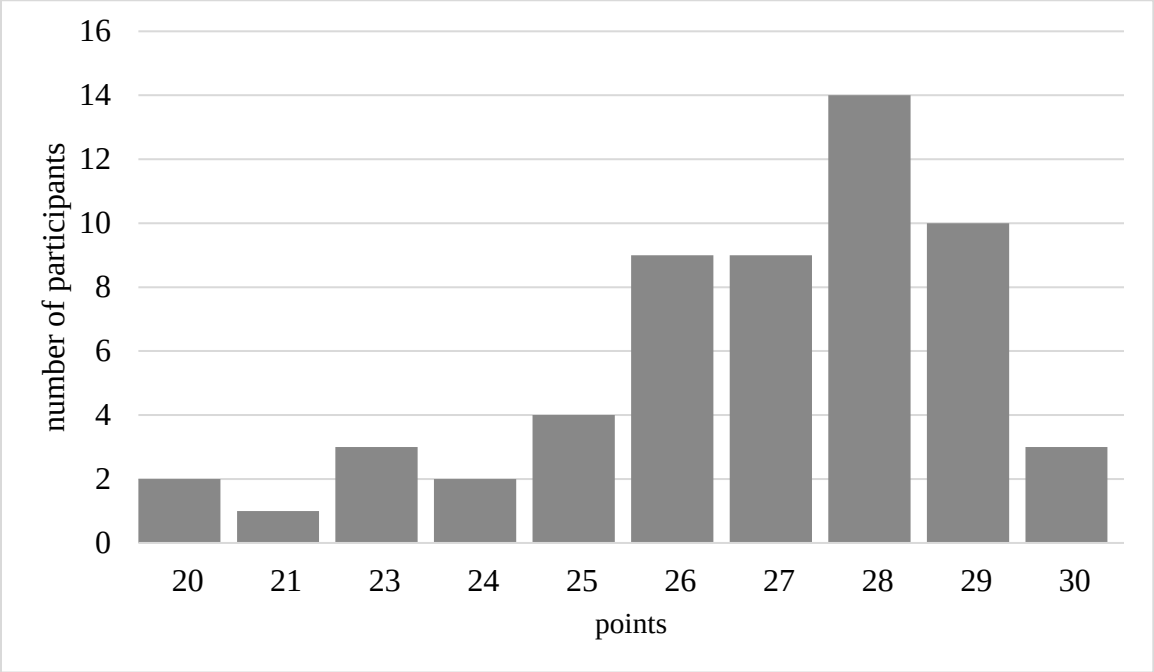
Descriptive Statistics

The mean score of this task was 26.79 (SD = 2.33). The lowest reached score was 20 and the highest 30 points of 30 points maximum. Figure 12 shows the point distribution.

Appendix B.6 gives further information on the items, especially the frequencies of presentation (N) and the means (M), which equal the item difficulties since they are coded 0 (false) and 1 (correct).

Figure 12

SCT – point distribution



Limitations

Since the items of the World Capital Knowledge were chosen randomly from an item pool, there is not enough data on the individual items to perform further statistical analysis. Future studies with bigger samples are needed to assess item reliabilities as well as item difficulties, afterwards the SCT can be evaluated for age effects.

Image Naming Test (INT)

Sample

The achieved sample size for the Image Naming Test (INT) was N = 99, n = 59 (59.6 %) participants were female, n = 40 (40.4 %) were male. The age ranged from 18 to 79 with a mean of 38.43 years (SD = 16.6). The mean of school years was 16.53 (SD = 3.67) and had a range of 8 to 27 years.

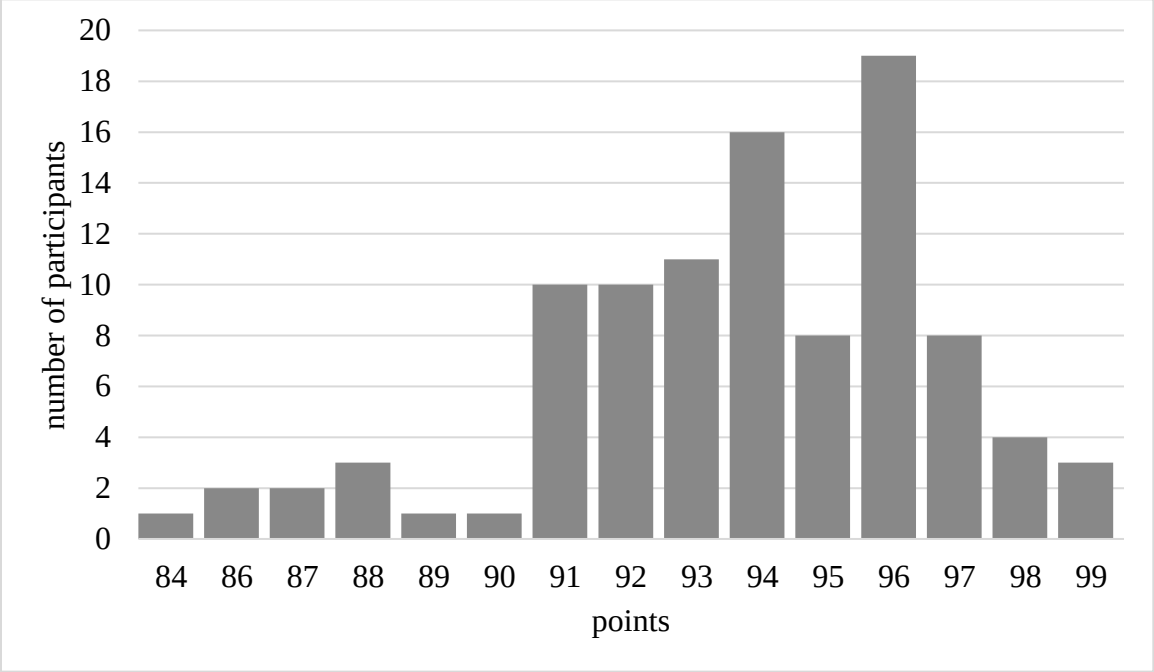
Descriptive Statistics

The mean score of the Image Naming Test was 93.72 (SD = 2.3). The minimum reached points were 84 and the maximum were 99 out of 100 achievable points. Figure 13 shows the point distribution.

Appendix B.7 gives further information on the items, especially the frequencies of presentation (N) and the means (M), which equal the item difficulties since they are coded 0 (false) and 1 (correct).

Figure 13

INT – point distribution



Limitations

Since the items of the World Capital Knowledge were chosen randomly from an item pool, there was not enough data on the individual items to perform further statistical analysis. Future studies with bigger samples are needed to assess item reliabilities as well as item difficulties, afterwards the INT can be evaluated for age effects.

Dice 2-n Back (DICE)

Sample

One participant had to be excluded due to an unreasonably low score, it had to be assumed that the task was not fully understood. The sample size of completed Dice 2-n Back (DICE) Test was N = 94, with n = 37 (39.4 %) male and n = 57 (60.6 %) female participants. The age ranged from 18 to 79 years with a mean of 37.11 years (SD = 15.72). The school years had a mean of 16.55 years (SD = 3.62) and a range of eight to 27.

Descriptive Statistics

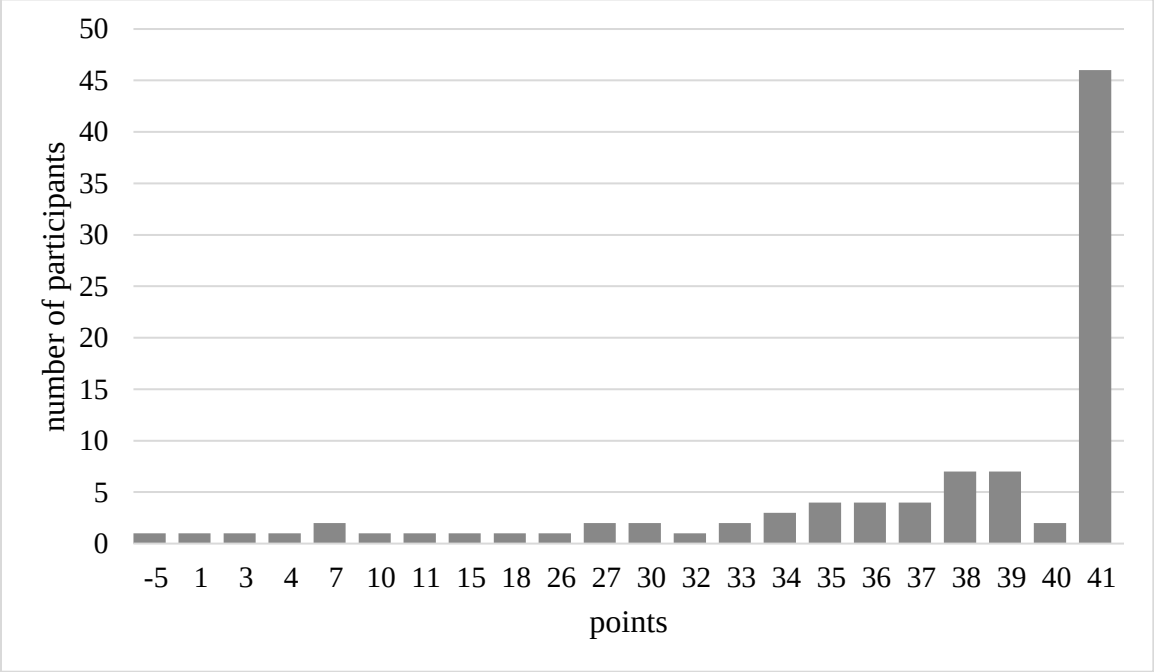
The minimum achieved point in this task were one and the maximum achieved points were 41. This task had a mean score of 35.67 points (*SD* = 9.69). The data was neither normally distributed nor linear. Figure 14 shows the point distribution.

Spearman Correlation

Since the data has no normal distribution a Spearman Correlation was performed to check for the connection between age and the achieved scores. The calculated correlation was r = -.43 with a 2-tailed significance of $p < .000$.

Figure 14

DICE – point distribution



Limitations

No linearity and no normal distribution were given.

Emotion Face Test (EFT)

Sample

The sample size was N = 101, n = 59 (58.4 %) participants were female, n = 42 (41.6 %) were male. The age ranged from 18 to 80 with a mean of 38.95 years (SD = 17.13). The mean of school years was 16.43 (SD = 3.77) and had a range of 8 to 27 years.

Descriptive Statistics

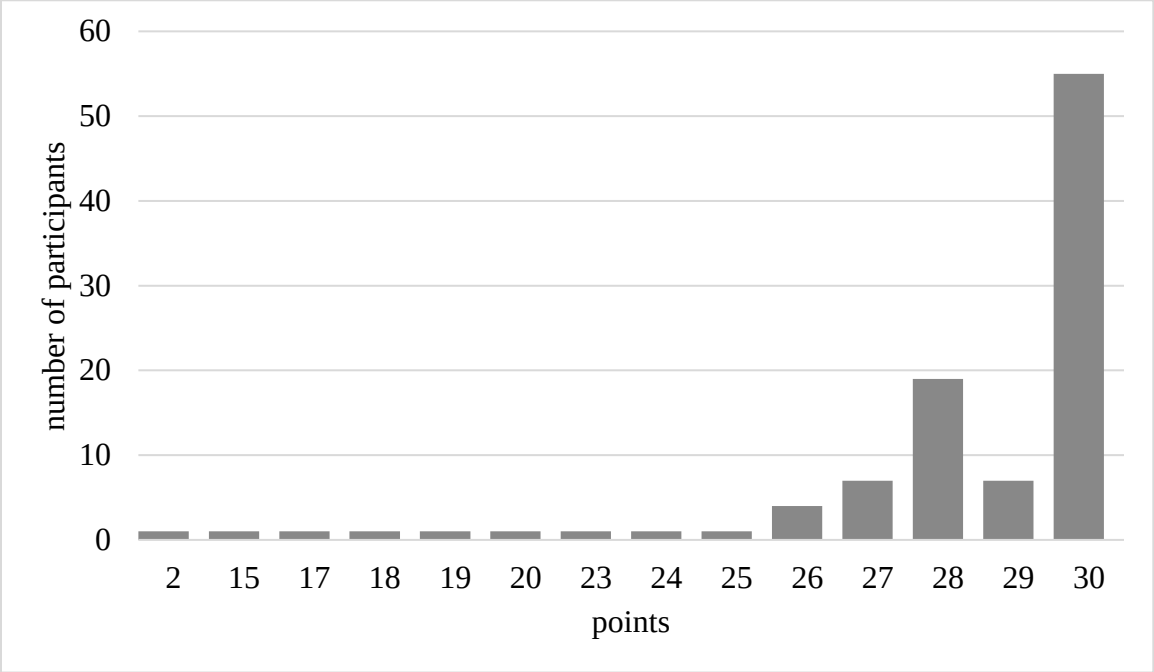
The mean score of this task was 28.13 (SD = 2.33). The lowest reached score was 2 and the highest 30 points. Figure 15 shows the point distribution.

Spearman Correlation

Since the data has no normal distribution a Spearman Correlation was performed to check for the connection between age and the achieved scores. The calculated correlation was r = -.41 with a 2-tailed significance of p < .000.

Figure 15

EFT – point distribution



Limitations

The data has no normal distribution and no linearity.

Verbal Vocabulary Test (VVT)

Sample

The achieved sample size for the Verbal Vocabulary Test (VVT) was *N* = 92, *n* = 60 (65.2 %) participants were female, *n* = 32 (34.8 %) were male. The age ranged from 18 to 85 with a mean of 41.05 years (*SD* = 18.15). The mean of school years was 16 (*SD* = 3.9) and had a range of 8 to 27 years.

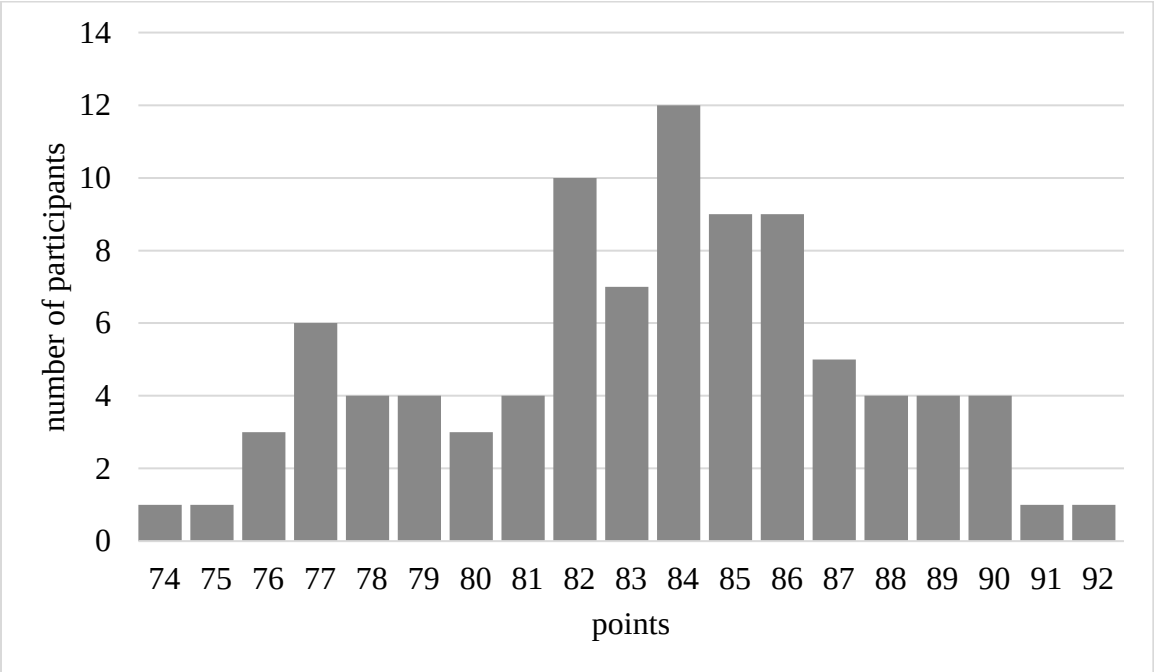
Descriptive Statistics

The mean score of the Verbal Vocabulary Test was 83.32 (*SD* = 4.1). The minimum reached points were 74 and the maximum were 92 out of 100 achievable points. Figure 16 shows the point distribution.

Appendix B.9 gives further information on the items, especially the frequencies of presentation (N) and the means (M), which equal the item difficulties since they are coded 0 (false) and 1 (correct).

Figure 16

VVT – point distribution



Limitations

Since the items of the World Capital Knowledge were chosen randomly from an item pool, there is not enough data on the individual items to perform further statistical analysis.

Future studies with bigger samples are needed to assess item reliabilities as well as item difficulties, afterwards the VVT can be evaluated for age effects.

Face Identification Test (FACE)

Sample

For the Face Identification Test (FACE) we have a sample of N = 107. Of the 107 participants n = 61 were women (67 %) and n = 46 (43 %) were men. The mean age was calculated with 40.1 years (SD = 17.31) and ranged from 18 to 80 years. The mean age of school years was 16.45 years (SD = 4) and a range of eight to 27 years.

Descriptive Statistics

In the sample the mean points reached in the task were 11.86 (SD = 3.1) points ranged from 4 to 16.

Age Effects

To check for the hypothesis if age effects are present a linear regression was calculated. Due to the violation of normal distribution bootstrapping was performed.

The results of the analysis are given in table 3. The predictor age turned out to be significant and explains 40 % (R^2 = .4) of the variance of the criterium. Figure 17 shows the point distribution.

Table 3

Results of linear regression

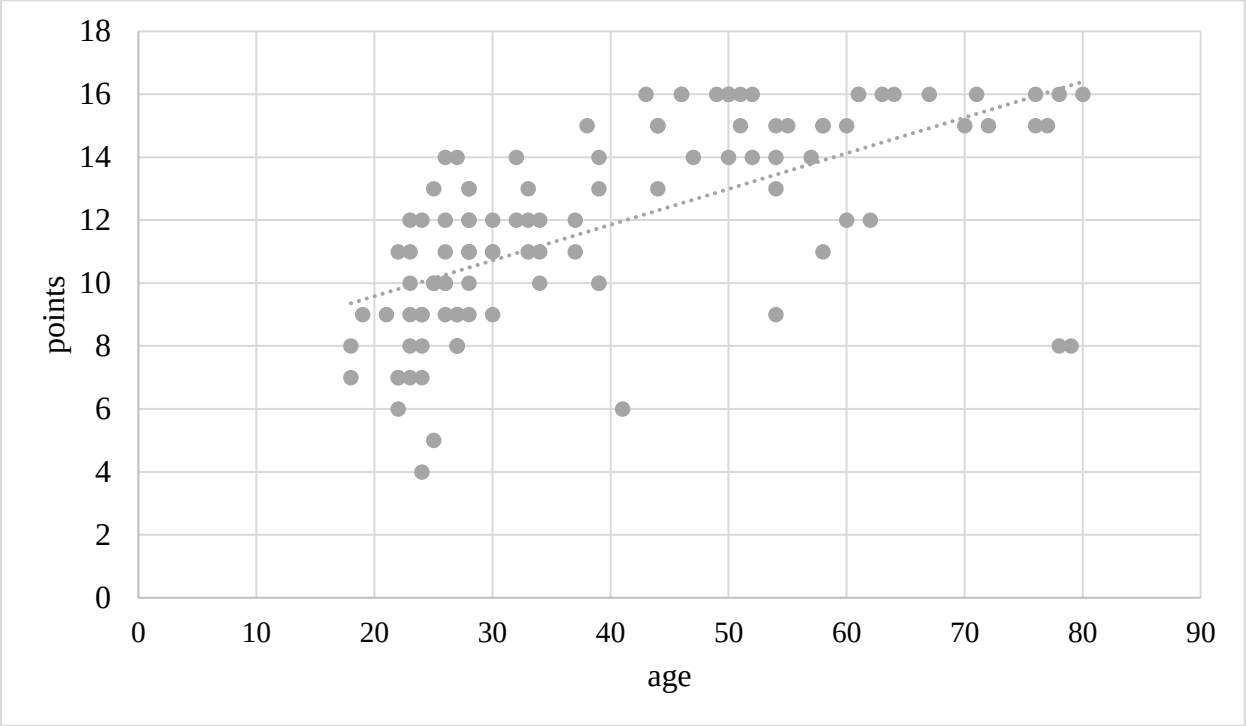
Predictor	B[a]	SE_B[a]	t	*p*
constant	-2.07	5.44	-0.4	.688
	[-12.52, 8.78]			
age	3.55	0.43	8.43	<.001
	[2.72, 4.38]			

Note. R^2 = .4, (n = 107, p < .001)

[a] confidence intervals and standard error via BCa bootstrapping, based on 1000 bootstrap samples.

Figure 17

FACE – scatter plot



City Identification Test (CITY)

Sample

For the City Identification Test (CITY) we have a sample of N = 109. Of the 109 participants n = 68 were women (62.4 %) and n = 41 (37.6 %) were men. The mean age was 39.77 years (SD = 17.28) and ranged from 18 to 85 years. The mean age of school years was 16.45 years (SD = 4), the minimum were eight years, the maximum 27.

Descriptive Statistics

In the sample the mean points reached in the task were 12.84 (SD = 2.34) points ranged from seven to 16.

Age Effects

To check for the hypothesis if age effects are present a linear regression was calculated. Due to the violation of normal distribution bootstrapping was performed.

The results of the analysis are given in table 4. In this case the predictor age turned out not to be significant. Figure 18 shows the point distribution.

Table 4

Results of linear regression

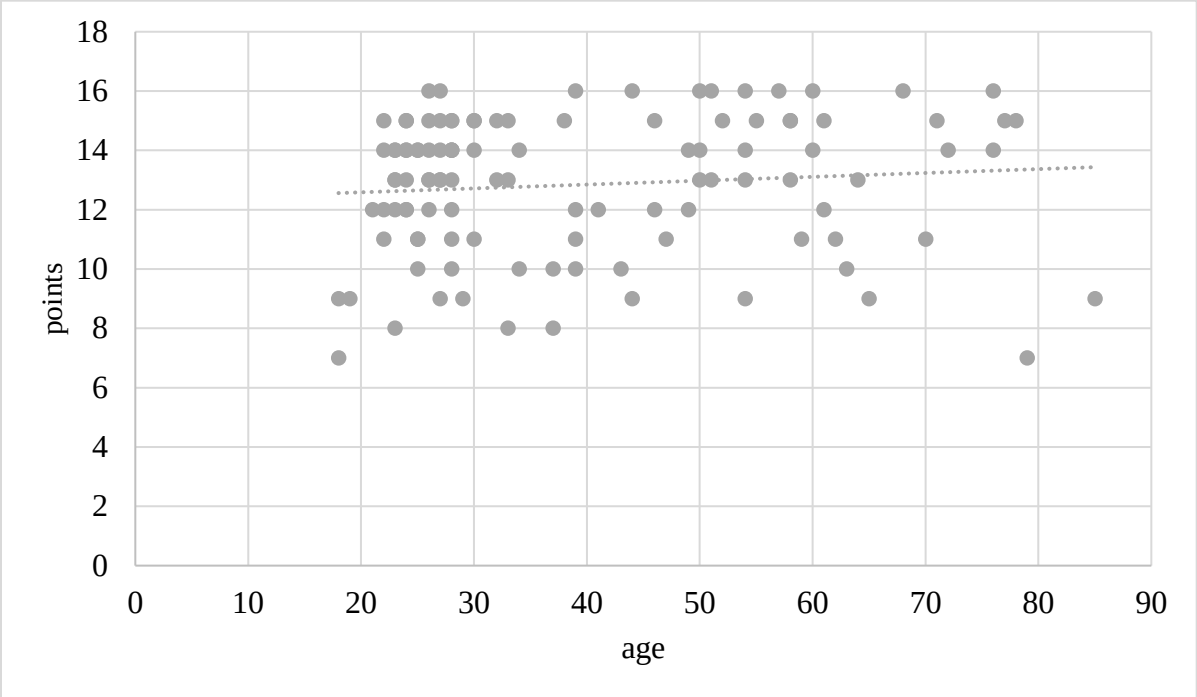
Predictor	B[a]	SE_B[a]	t	*p*
constant	30.63	11.06	3.3	<.001
	[11.51, 51.66]			
age	0.71	0.84	1	.319
	[-1.03, 2.48]			

Note. R^2 = .009, (n = 109, p = .319)

[a] confidence intervals and standard error via BCa bootstrapping, based on 1000 bootstrap samples.

Figure 18

CITY – scatter plot



Pattern Cancel Test (PCT)

Sample

The achieved sample size for the Pattern Cancel Test (PCT) was N = 34. In the sample were n = 22 female (64.7 %) and n = 12 (35.3 %) male participants. The mean age was 41.21

years (*SD* = 17.05), the age range was from 19 to 76 years. The mean years of formal education were 17.12 (*SD* = 3.96) and ranged from nine to 27 years.

Descriptive Statistics

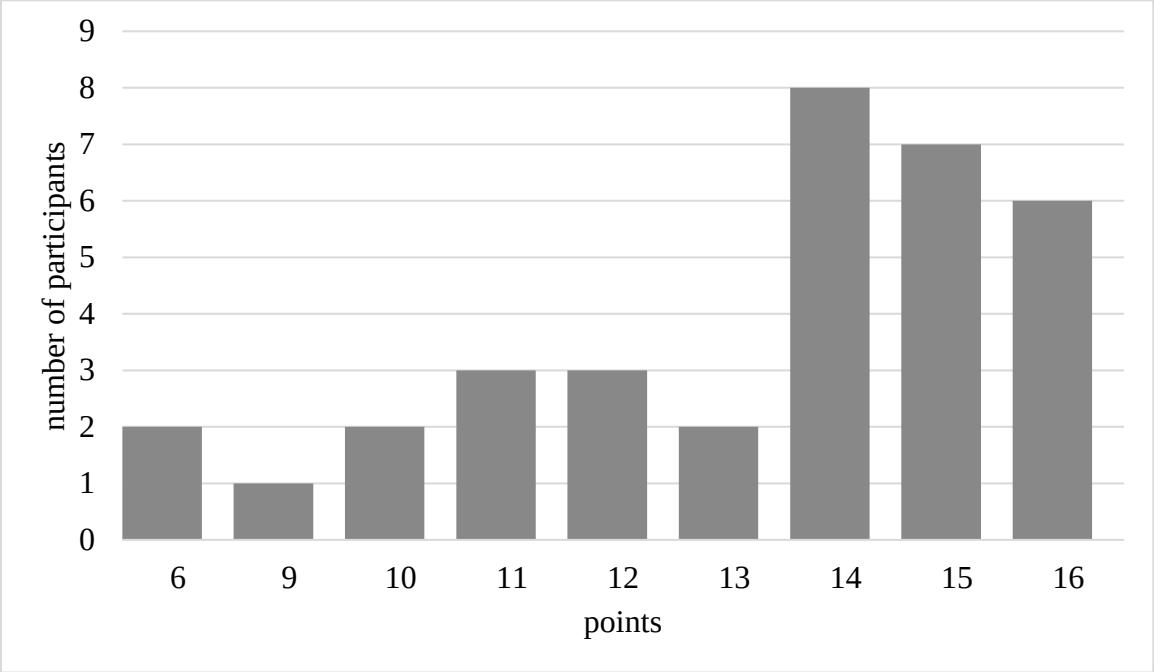
The mean of achieved points was 13.21 (*SD* = 4.37) of possibly reachable 40 points. The scores ranged from a minimum of 6 points to a maximum of 16 points. Figure 19 shows the point distribution.

Spearman Correlation

Since the data has no normal distribution a Spearman Correlation was performed to check for the connection between age and the achieved scores. The calculated correlation was r = -.25 with a 2-tailed significance of p = .149.

Figure 19

PCT – point distribution



Limitations

There was no normal distribution and no linearity, further the sample size was too small for additional statistical tests.

5 Discussion

The present study aimed to achieve the first samples for some of the subtest of the INCP 3.0. Another goal was to generate the first statistical values for the tasks and if possible, check for potential age effects.

The above presented data shows descriptive statistics (means, ranges, standard deviations) of the samples and the subtasks. The figures provide a visualization of the point distribution, which in all cases is not normally distributed.

In the cases of the Digit Symbol Test (DST) and Face Identification Test (FACE) the modelled linear regressions showed a significant connection between the test results and the variable age. Therefore, the null hypothesis, that there are no significant age effects, can be rejected. People with higher age reached higher scores in the FACE test, this fact seems obvious considering that the test revolves around celebrities of the past century. Some of them are already deceased or completely unknown to younger generations. It should be kept in mind that bootstrapping was performed to take in account the violation of the normal distribution and to generate more robust results. Nevertheless, the generalizability is restricted due to the sampling method and the uneven distribution of age (underrepresentation of middle aged people), gender (more females than males), and school years (overrepresentation of highly educated people).

In the Digit Symbol Test (DST) the results get worse the older the participant.

It will be especially important to create differentiated norms for these subtests in the future to take in account the proven age effects.

The City Identification Test on the other hand does not significantly interact with the age of the participants, in this case the null hypothesis is maintained.

The correlation analysis shows a significant negative correlation between age and the results of the Dice 2-n Back Test (DICE), the Figure Fluency Test (FFT) and the Emotion Face Test (EFT). This means that the older the participant was the worse were the results.

There are no significant correlations between the Traffic Light Test – Short (TLT-S), Time Duration Test (TDT), Pattern Cancel Test (PCT) and age.

Literature told us that age effects are common (Welsh et al., 1994; Lehrner et al., 2007; Lehrner et al., 2017; Heidinger & Lehrner, 2020; Holzer, 2020) and should be checked for when developing neurocognitive tests or test batteries. All in all the findings are in accordance with what was expected and will be useful to create norms and help in the validation and standardization process.

Pilot study

Due to the character of a pilot study some obstacles occurred in the survey and analysis of data. The analysis made one big problem of the previous study designs clear: the sample size had to be reduced to half of its actual size due to the unstandardized collection of the data for the INCP 1.0. The design has already improved and most of the participants in the samples are the ones that were collected with the better protocolling system. It also became clear that collecting information on the inclusion and exclusion criteria is crucial, since participants also were excluded due to missing information.

The sample sizes vary from test to test, this is because a lot of the subtest were added much later than others. A lot of the participants also canceled their study participation due to the sheer length of the INCP (about 60 to 120 minutes), that is also the reason why the tests at the beginning have bigger samples than the ones at the end.

The INCP is in development in cooperation with a programming company. It often occurred, that the tasks were programmed wrong, or the instructions were false or missing completely. This fact may have biased the won data, it is not possible to check if the participants understood the task correctly in retrospective. Due to technical reasons tests like Faces-Couples Test (FCT) had to be removed and still are, until the programming issues are solved.

The instructions of the tasks are continuously modified, it cannot yet be assumed that all of them are clearly understandable. Some outliers had to be eliminated from the evaluation because the values were low, that it must be assumed that the instruction was not read carefully enough or not understood.

Another fact that should be kept in mind in future studies is that the participants may be exhausted or less attentive at the tasks at the end. Furthermore, differences in the setting should be checked: the noise level in the General Hospital is far louder than in other settings. Efforts had already been made to reduce the noise level with the help of headphones, but since these did not have a noise-cancelling-function, many subjects continued to feel disturbed by the background noise or simply took them off. This may also cause differences in the data.

Another point worth noticing is that the data collection happened during the worldwide Corona pandemic. The general hospital had to cancel a lot of appointments, therefore the potential participant pool decreased too. Social contacts had to be reduced outside the hospital as well, what lead to smaller response rate for the study.

It can also be assumed that the impact of the pandemic on the mental health also affected out participants, what may have led to higher BDI-II scores and therefore a higher number of excluded cases.

Limitations

The mentioned points limit the validity of the presented data. Besides the named limitations that occurred due to the fact that the study was a pilot study it should also be mentioned that the sample is not representative. We achieved a sample with an overrepresentation of women. The school years are not distributed evenly as well, the samples contain far more participants with higher education. The data contains more cases for younger and very old people but less cases for the middle-aged population.

In some cases, the sample sizes were to small to perform proper statistical analysis, especially in regard of age effects and the connection between the scores and age.

Future studies

Future studies should take in account the mentioned difficulties and limitations. Bigger sample sizes are needed, and I propose a systematic change in the test order to check for biases due to motivation and exhaustion. The sample sizes for the later tests should profit from the change in order too and increase.

The higher the standardization of the data collection the better. The protocolling has improved the amount of usable and full data sets tremendously. Standardizing the surroundings may be profitable too.

Future studies will also have to establish item difficulties as well as reliabilities and validities. A cluster analysis will be necessary to test the model fit of the data and the theoretical background.

The appropriateness of the length should be discussed to. The feedback of the participants was more than clear: the study takes too long. One possible way would be to cluster the tests, possibly in the clusters of the domains, and through this decrease the time needed.

Despite all issues it has to be kept in mind that this study was only a small part of a big project and at this stage the present obstacles seem more than understandable. The concept behind the INCP is well developed and once methodologically sound could have a big impact on dementia screening and therefore public health in general.

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List of Figures

List of Tables

Appendix

Appendix A

Abstract

By 2050 we are expecting more than double the cases in Dementia in Austria than there are right now. To face this upcoming challenge promising pharmacological treatment is on the rise. But for the treatment to work best, an early application is essential, which in turn raises the demand for a valid and reliable screening tool. The International Neurocognitive Test Profile is being developed to do exactly that. It contains several tasks to measure functioning in the six neurocognitive domains (perceptual-motor function, language, executive function, learning and memory, social cognition, complex attention). It is conceptualized to be used at home by lay people on a tablet or comparable device. The current pilot study gives the first statistical data on the INCP 3.0 and identifies age effects in the Digit Symbol Test and Face Identification Test.

Keywords: Alzheimer’s Disease, dementia, cognitive impairment, age effects

Abstrakt

Bis zum Jahr 2050 rechnet man mit mehr als der doppelten Fallzahl an Demenz Patient*innen in Österreich als zum jetzigen Zeitpunkt. Um dieser zukünftigen gesellschaftlichen Herausforderung gerechte zu werden, werden vielversprechende medikamentöse Behandlungen etwickelt. Um eine bestmögliche Behandlung zu gewährleisten ist ein frühzeitiger Interventionsbeginn essenziell. Das lässt die Nachfrage nach einem reliablen und validen Screening-Mittel steigen. Das International Neurocognitve Test Profile (INTP) wird entwickelt um dem Folge zu leisten. Die Testbatterie beinhaltet verschiedene Aufgaben um die sechs neurokogntivinen Domänen (Wahrnehmungs-Motorik, Sprache, Exekutivfunktion, Lernen und Gedächtnis, soziale Kognition, komplexe Aufmerksamkeit) zu messen. Es wurde so konzeptualisiert, dass es von Laien im eigenen Zuhause ausgeführt werden kann. Das ganze wird auf einem Tablet-Computer oder ähnlichem elektronischen Endgerät dargeboten. Die folgende Pilotstudie liefert die ersten statistischen Kennwerte zu den Subtests des INCP 3.0 und zeigt Alterseffekte beim Digit Symbol Test und Face Identification Test auf.

Schlüsselwörter: Alzheimer, Demenz, kognitive Störung, Alterseffekte

Appendix B

Appendix B.1a WCK – frequencies of item presentation, round 1

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
Andorra_la_Vella	0				
Luanda	0				
Tirana	1	1	1	1,00	
Algier	2	1	1	1,00	0,000
St_Johns	3	1	1	1,00	0,000
Funafuti	4	0	1	,75	,500
Gaborone	5	0	1	,80	,447
Tegucigalpa	5	0	1	,40	,548
Port_Moresby	5	1	1	1,00	0,000
Ljubljana	5	0	1	,80	,447
Khartum	5	0	1	,80	,447
Bangkok	5	0	1	,80	,447
Kabul	6	1	1	1,00	0,000
Bridgetown	6	1	1	1,00	0,000
Vientiane	6	0	1	,67	,516
Port_Louis	6	1	1	1,00	0,000
Belgrad	6	0	1	,83	,408
Wien	7	1	1	1,00	0,000
Manama	7	0	1	,43	,535
San_José	7	0	1	,71	,488
Malabo	7	0	1	,86	,378
Vilnius	7	0	1	,86	,378
Bamako	7	0	1	,86	,378
Rabat	7	1	1	1,00	0,000
Oslo	7	1	1	1,00	0,000
Jerusalem_P	7	0	1	,57	,535
Asunción	7	1	1	1,00	0,000
Freetown	7	0	1	,57	,535
Kampala	7	0	1	,71	,488
Canberra	8	0	1	,88	,354
Minsk	8	0	1	,75	,463
Ottawa	8	0	1	,88	,354
Kairo	8	1	1	1,00	0,000
Tallinn	8	0	1	,63	,518
Helsinki	8	1	1	1,00	0,000
Amman	8	0	1	,63	,518
Bischkek	8	0	1	,88	,354
Antananarivo	8	0	1	,88	,354
Maskat	8	0	1	,88	,354
Montevideo	8	1	1	1,00	0,000
Thimphu	9	0	1	,89	,333
Sucre	9	0	1	,78	,441

Sarajevo	9	1	1	1,00	0,000
Bangui	9	0	1	,78	,441
Havanna	9	1	1	1,00	0,000
Nikosia	9	1	1	1,00	0,000
Prag	9	1	1	1,00	0,000
Quito	9	0	1	,89	,333
Addis_Abeba	9	0	1	,89	,333
Bissau	9	0	1	,89	,333
Pristina	9	0	1	,89	,333
Kuwait_Stadt	9	0	1	,89	,333
Valletta	9	0	1	,89	,333
Nouakchott	9	0	1	,67	,500
Mexiko_Stadt	9	1	1	1,00	0,000
Abuja	9	0	1	,78	,441
Ngerulmud	9	0	1	,78	,441
Manila	9	0	1	,78	,441
Moskau	9	1	1	1,00	0,000
Kingstown	9	0	1	,67	,500
Riad	9	0	1	,89	,333
Singapur_Stadt	9	0	1	,78	,441
Juba	9	0	1	,67	,500
Colombo	9	0	1	,78	,441
Paramaribo	9	1	1	1,00	0,000
Damaskus	9	0	1	,78	,441
Duschanbe	9	1	1	1,00	0,000
Vatikanstadt	9	0	1	,89	,333
Buenos_Aires	10	1	1	1,00	0,000
Porto_Novo	10	0	1	,60	,516
Berlin	10	1	1	1,00	0,000
Riga	10	0	1	,90	,316
Monrovia	10	0	1	,90	,316
Tripolis	10	0	1	,80	,422
Kuala_Lumpur	10	1	1	1,00	0,000
Amsterdam	10	0	1	,80	,422
Niamey	10	0	1	,70	,483
Basseterre	10	0	1	,70	,483
Apia	10	0	1	,40	,516
Madrid	10	1	1	1,00	0,000
Taschkent	10	0	1	,70	,483
Baku	11	0	1	,73	,467
Badar_Seri_Begawan	11	0	1	,73	,467
Phnom_Penh	11	0	1	,91	,302
Moroni	11	0	1	,64	,505
Brazzaville	11	0	1	,73	,467
Zagreb	11	0	1	,91	,302
Suva	11	0	1	,55	,522
Accra	11	0	1	,82	,405

Jakarta	11	0	1	,91	,302
Palikir	11	0	1	,64	,505
Monaco_Stadt	11	0	1	,82	,405
Kathmandu	11	1	1	1,00	0,000
Lima	11	0	1	,91	,302
Seoul	11	1	1	1,00	0,000
Bern	11	1	1	1,00	0,000
Tunis	11	1	1	1,00	0,000
Ankara	11	1	1	1,00	0,000
Nassau	12	0	1	,42	,515
Belmopan	12	0	1	,58	,515
Brasília	12	0	1	,92	,289
Kopenhagen	12	0	1	,83	,389
San_Salvador	12	1	1	1,00	0,000
St_Georges	12	0	1	,58	,515
Jerusalem	12	0	1	,92	,289
Rom	12	0	1	,83	,389
Nairobi	12	0	1	,92	,289
Lilongwe	12	0	1	,58	,515
Majuro	12	0	1	,67	,492
Maputo	12	0	1	,58	,515
Managua	12	0	1	,83	,389
Bukarest	12	1	1	1,00	0,000
Castries	12	0	1	,67	,492
Sao_Tomé	12	0	1	,92	,289
Honiara	12	0	1	,67	,492
Kapstadt	12	0	1	,92	,289
Mbabane	12	0	1	,92	,289
Stockholm	12	1	1	1,00	0,000
Dili	12	0	1	,50	,522
Port_of_Spain	12	0	1	,92	,289
Aschgabat	12	1	1	1,00	0,000
Kiew	12	1	1	1,00	0,000
Abu_Dhabi	12	1	1	1,00	0,000
Washington_DC	12	1	1	1,00	0,000
Bujumbura	13	0	1	,85	,376
N_Djamena	13	0	1	,85	,376
Bogotá	13	0	1	,85	,376
Kinshasa	13	0	1	,77	,439
Banjul	13	0	1	,92	,277
Tiflis	13	1	1	1,00	0,000
Athen	13	0	1	,85	,376
Reykjavík	13	1	1	1,00	0,000
Bagdad	13	1	1	1,00	0,000
South_Tarawa	13	0	1	,77	,439
Podgorica	13	0	1	,85	,376

Yaren	13	0	1	,54	,519
Kigali	13	0	1	,92	,277
Lusaka	13	0	1	,62	,506
Yaoundé	14	0	1	,79	,426
Santiago_de_Chile	14	1	1	1,00	0,000
Paris	14	1	1	1,00	0,000
Georgetown	14	0	1	,50	,519
Teheran	14	0	1	,93	,267
Dublin	14	1	1	1,00	0,000
Astana	14	0	1	,86	,363
Vaduz	14	0	1	,93	,267
Ulaanbaatar	14	0	1	,79	,426
Panama_Stadt	14	1	1	1,00	0,000
Dakar	14	0	1	,71	,469
Victoria	14	0	1	,79	,426
Dhaka	15	0	1	,80	,414
Roseau	15	0	1	,80	,414
Guatemala_Stadt	15	1	1	1,00	0,000
Conakry	15	0	1	,47	,516
Neu_Dehli	15	1	1	1,00	0,000
Kingston	15	0	1	,93	,258
Tokio	15	1	1	1,00	0,000
Malé	15	0	1	,80	,414
Chisinau	15	0	1	,80	,414
Naypyidaw	15	0	1	,60	,507
Wellington	15	0	1	,93	,258
Warschau	15	0	1	,93	,258
Doha	15	0	1	,80	,414
Mogadischu	15	0	1	,67	,488
Port_Vila	15	0	1	,73	,458
Caracas	15	0	1	,73	,458
Eriwan	16	0	1	,88	,342
Sofia	16	1	1	1,00	0,000
Asmara	16	0	1	,81	,403
Libreville	16	0	1	,75	,447
Pjöngjang	16	0	1	,63	,500
Bratislava	16	0	1	,94	,250
Taipeh	16	0	1	,88	,342
Dodoma	16	0	1	,81	,403
London	16	1	1	1,00	0,000
Harare	16	0	1	,94	,250
Santo_Domingo	17	1	1	1,00	0,000
Port_au_Prince	17	0	1	,59	,507
Beirut	17	0	1	,65	,493
Maseru	17	0	1	,71	,470

Luxemburg_Stadt	17	1	1	1,00	0,000
Skopje	17	0	1	,82	,393
Windhuk	17	0	1	,71	,470
Islamabad	17	1	1	1,00	0,000
San_Marino_Stadt	17	1	1	1,00	0,000
Sanaa	17	0	1	,65	,493
Praia	18	0	1	,61	,502
Peking	18	0	1	,89	,323
Dschibuti_Stadt	18	0	1	,89	,323
Lomé	18	0	1	,78	,428
Hanoi	18	0	1	,83	,383
Yamoussoukro	19	0	1	,58	,507
Lissabon	19	0	1	,84	,375
Nuku_alofa	19	0	1	,79	,419
Ouagadougou	20	0	1	,95	,224
Budapest	20	1	1	1,00	0,000
Brüssel	22	0	1	,91	,294

Appendix B.1b WCK – frequencies of item presentation, round 2

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
Andorra_la_Vella2	0				
Luanda2	0				
Tirana2	1	1	1	1,00	
Algier2	2	1	1	1,00	0,000
St_Johns2	3	1	1	1,00	0,000
Ljubljana2	4	1	1	1,00	0,000
Funafuti2	4	0	1	,75	,500
Bridgetown2	5	1	1	1,00	0,000
Khartum2	5	0	1	,60	,548
Bangkok2	5	1	1	1,00	0,000
Kabul2	6	0	1	,67	,516
Gaborone2	6	0	1	,83	,408
San_José2	6	0	1	,83	,408
Bamako2	6	0	1	,67	,516
Port_Louis2	6	1	1	1,00	0,000
Port_Moresby2	6	1	1	1,00	0,000
Asunción2	6	0	1	,83	,408
Belgrad2	6	0	1	,83	,408
Kampala2	6	0	1	,83	,408

Canberra2	7	1	1	1,00	0,000
Kairo2	7	1	1	1,00	0,000
Malabo2	7	0	1	,86	,378
Addis_Abeba2	7	1	1	1,00	0,000
Helsinki2	7	1	1	1,00	0,000
Tegucigalpa2	7	0	1	,86	,378
Vilnius2	7	0	1	,71	,488
Rabat2	7	0	1	,57	,535
Jerusalem_P2	7	0	1	,57	,535
Freetown2	7	0	1	,71	,488
Taschkent2	7	0	1	,71	,488
Wien2	8	1	1	1,00	0,000
Manama2	8	0	1	,88	,354
Misnk2	8	0	1	,88	,354
Sucre2	8	1	1	1,00	0,000
Sarajevo2	8	1	1	1,00	0,000
Ottawa2	8	0	1	,88	,354
Havanna2	8	1	1	1,00	0,000
Prag2	8	1	1	1,00	0,000
Bissau2	8	0	1	,88	,354
Amman2	8	1	1	1,00	0,000
Vientiane2	8	0	1	,88	,354
Antananarivo2	8	0	1	,88	,354
Kuala_Lumpur2	8	1	1	1,00	0,000
Oslo2	8	1	1	1,00	0,000
Maskat2	8	0	1	,88	,354
Moskau2	8	1	1	1,00	0,000
Vatikanstadt2	8	1	1	1,00	0,000
Bangui2	9	0	1	,78	,441
Moroni2	9	0	1	,89	,333
Tallinn2	9	0	1	,89	,333
Pristina2	9	0	1	,89	,333
Kuwait_Stadt2	9	1	1	1,00	0,000
Bischkek2	9	1	1	1,00	0,000
Riga2	9	0	1	,89	,333
Tripolis2	9	0	1	,89	,333
Mexiko_Stadt2	9	1	1	1,00	0,000
Monaco_Stadt2	9	0	1	,67	,500
Niamey2	9	0	1	,67	,500
Abuja2	9	0	1	,89	,333
Ngerulmud2	9	0	1	,89	,333
Apia2	9	0	1	,78	,441
Colombo2	9	1	1	1,00	0,000
Damaskus2	9	1	1	1,00	0,000
Duschanbe2	9	0	1	,78	,441

Montevideo2	9	0	1	,89	,333
Buenos_Aires2	10	1	1	1,00	0,000
Porto_Novo2	10	0	1	,80	,422
Thimphu2	10	0	1	,90	,316
Phnom_Penh2	10	1	1	1,00	0,000
Zagreb2	10	0	1	,90	,316
Nikosia2	10	0	1	,90	,316
Athen2	10	0	1	,90	,316
Jakarta2	10	0	1	,90	,316
Jerusalem2	10	1	1	1,00	0,000
Astana2	10	1	1	1,00	0,000
Monrovia2	10	0	1	,40	,516
Lilongwe2	10	0	1	,80	,422
Palikir2	10	0	1	,70	,483
Maputo2	10	0	1	,90	,316
Yaren2	10	0	1	,60	,516
Kingstown2	10	0	1	,90	,316
Juba2	10	1	1	1,00	0,000
Paramaribo2	10	0	1	,70	,483
Ankara2	10	1	1	1,00	0,000
Belmopan2	11	0	1	,82	,405
Bogotá2	11	0	1	,82	,405
Brazzaville2	11	0	1	,82	,405
Kopenhagen2	11	0	1	,82	,405
Quito2	11	0	1	,91	,302
Paris2	11	1	1	1,00	0,000
Valletta2	11	1	1	1,00	0,000
Majuro2	11	0	1	,82	,405
Nouakchott2	11	0	1	,64	,505
Amsterdam2	11	1	1	1,00	0,000
Lima2	11	1	1	1,00	0,000
Manila2	11	1	1	1,00	0,000
Basseterre2	11	0	1	,82	,405
Riad2	11	0	1	,91	,302
Singapur_Stadt2	11	1	1	1,00	0,000
Kapstadt2	11	0	1	,91	,302
Seoul2	11	0	1	,91	,302
Madrid2	11	1	1	1,00	0,000
Port_of_Spain2	11	0	1	,91	,302
Tunis2	11	1	1	1,00	0,000
Abu_Dhabi2	11	1	1	1,00	0,000
Washington_DC2	11	0	1	,91	,302
Baku2	12	0	1	,92	,289
Nassau2	12	0	1	,75	,452
Brasília2	12	0	1	,92	,289

N_Djamena2	12	0	1	,83	,389
Berlin2	12	1	1	1,00	0,000
Accra2	12	0	1	,92	,289
St_Georges2	12	0	1	,83	,389
Conakry2	12	1	1	1,00	0,000
Bagdad2	12	1	1	1,00	0,000
Rom2	12	1	1	1,00	0,000
Kingston2	12	0	1	,92	,289
Nairobi2	12	1	1	1,00	0,000
South_Tarawa2	12	0	1	,75	,452
Podgorica2	12	0	1	,83	,389
Kathmandu2	12	0	1	,83	,389
Managua2	12	0	1	,92	,289
Bukarest2	12	0	1	,92	,289
Sao_Tomé2	12	1	1	1,00	0,000
Dakar2	12	0	1	,75	,452
Honiara2	12	0	1	,83	,389
Mbabane2	12	0	1	,92	,289
Stockholm2	12	1	1	1,00	0,000
Bern2	12	1	1	1,00	0,000
Kiew2	12	0	1	,92	,289
Port_Vila2	12	0	1	,75	,452
Badar_Seri_Begawan2	13	0	1	,69	,480
Yaoundé2	13	0	1	,92	,277
Kinshasa2	13	0	1	,85	,376
San_Salvador2	13	0	1	,92	,277
Suva2	13	0	1	,85	,376
Banjul2	13	0	1	,85	,376
Georgetown2	13	0	1	,77	,439
Reykjavík2	13	1	1	1,00	0,000
Dublin2	13	1	1	1,00	0,000
Vaduz2	13	1	1	1,00	0,000
Castries2	13	0	1	,77	,439
Mogadischu2	13	0	1	,85	,376
Aschgabat2	13	0	1	,85	,376
Sofia2	14	0	1	,79	,426
Guatemala_Stadt2	14	1	1	1,00	0,000
Neu_Dehli2	14	1	1	1,00	0,000
Tokio2	14	0	1	,93	,267
Chisinau2	14	0	1	,79	,426
Wellington2	14	1	1	1,00	0,000
Islamabad2	14	0	1	,86	,363
Warschau2	14	0	1	,93	,267
Kigali2	14	0	1	,71	,469
Victoria2	14	0	1	,79	,426
Dili2	14	0	1	,71	,469

Caracas2	14	0	1	,79	,426
Lusaka2	14	0	1	,79	,426
Eriwan2	15	0	1	,87	,352
Bujumbura2	15	1	1	1,00	0,000
Peking2	15	0	1	,93	,258
Santo_Domingo2	15	1	1	1,00	0,000
Libreville2	15	1	1	1,00	0,000
Tiflis2	15	0	1	,93	,258
Teheran2	15	1	1	1,00	0,000
Naypyidaw2	15	0	1	,93	,258
Pjöngjang2	15	0	1	,93	,258
Panama_Stadt2	15	1	1	1,00	0,000
Dodoma2	15	0	1	,93	,258
Dhaka2	16	0	1	,94	,250
Santiago_de_Chile2	16	1	1	1,00	0,000
Port_au_Prince2	16	1	1	1,00	0,000
Beirut2	16	0	1	,88	,342
Ulaanbaatar2	16	0	1	,88	,342
Doha2	16	0	1	,94	,250
San_Marino_Stadt2	16	0	1	,94	,250
Taipeh2	16	1	1	1,00	0,000
London2	16	1	1	1,00	0,000
Sanaa2	16	0	1	,94	,250
Roseau2	17	0	1	,94	,243
Malé2	17	1	1	1,00	0,000
Lissabon2	17	0	1	,94	,243
Lomé2	17	0	1	,94	,243
Hanoi2	17	1	1	1,00	0,000
Harare2	17	0	1	,94	,243
Ouagadougou2	18	0	1	,83	,383
Praia2	18	0	1	,83	,383
Dschibuti_Stadt2	18	0	1	,94	,236
Skopje2	18	0	1	,89	,323
Windhuk2	18	0	1	,78	,428
Bratislava2	18	1	1	1,00	0,000
Nuku_alofa2	18	0	1	,78	,428
Asmara2	19	0	1	,79	,419
Budapest2	19	0	1	,95	,229
Maseru2	19	0	1	,58	,507
Yamoussoukro2	20	0	1	,85	,366
Luxemburg_Stadt2	20	1	1	1,00	0,000
Brüssel2	21	1	1	1,00	0,000

Appendix B.1c WCK – frequencies of item presentation, round 3

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
Andorra_la_Vella3	0				
Luanda3	0				
Tirana3	1	0	0	0,00	
Algier3	2	1	1	1,00	0,000
St_Johns3	3	1	1	1,00	0,000
Ngerulmud3	4	1	1	1,00	0,000
Ljubljana3	4	1	1	1,00	0,000
Funafuti3	4	1	1	1,00	0,000
Bridgetown3	5	0	1	,80	,447
Khartum3	5	0	1	,60	,548
Bangkok3	5	1	1	1,00	0,000
Kabul3	6	0	1	,83	,408
Gaborone3	6	0	1	,67	,516
San_José3	6	0	1	,83	,408
Bamako3	6	0	1	,67	,516
Port_Louis3	6	1	1	1,00	0,000
Port_Moresby3	6	1	1	1,00	0,000
Asunción3	6	0	1	,83	,408
Belgrad3	6	1	1	1,00	0,000
Kampala3	6	1	1	1,00	0,000
Canberra3	7	0	1	,86	,378
Kairo3	7	1	1	1,00	0,000
Malabo3	7	0	1	,86	,378
Addis_Abeba3	7	1	1	1,00	0,000
Helsinki3	7	0	1	,86	,378
Tegucigalpa3	7	1	1	1,00	0,000
Vilnius3	7	0	1	,86	,378
Rabat3	7	0	1	,86	,378
Freetown3	7	1	1	1,00	0,000
Taschkent3	7	0	1	,86	,378
Wien3	8	1	1	1,00	0,000
Manama3	8	0	1	,50	,535
Minsk3	8	0	1	,88	,354
Sucre3	8	1	1	1,00	0,000
Sarajevo3	8	1	1	1,00	0,000
Ottawa3	8	0	1	,75	,463
Havanna3	8	1	1	1,00	0,000
Prag3	8	1	1	1,00	0,000
Bissau3	8	0	1	,88	,354
Amman3	8	0	1	,88	,354
Vientiane3	8	0	1	,88	,354

Antananarivo3	8	0	1	,88	,354
Kuala_Lumpur3	8	0	1	,88	,354
Oslo3	8	0	1	,88	,354
Maskat3	8	1	1	1,00	0,000
Moskau3	8	1	1	1,00	0,000
Vatikanstadt3	8	1	1	1,00	0,000
Bangui3	9	0	1	,78	,441
Moroni3	9	0	1	,89	,333
Tallinn3	9	1	1	1,00	0,000
Pristina3	9	0	1	,78	,441
Kuwait_Stadt3	9	1	1	1,00	0,000
Bischkek3	9	0	1	,89	,333
Riga3	9	1	1	1,00	0,000
Tripolis3	9	1	1	1,00	0,000
Mexiko_Stadt3	9	1	1	1,00	0,000
Monaco_Stadt3	9	0	1	,78	,441
Niamey3	9	0	1	,89	,333
Abuja3	9	1	1	1,00	0,000
Apia3	9	0	1	,78	,441
Colombo3	9	1	1	1,00	0,000
Damaskus3	9	0	1	,89	,333
Duschanbe3	9	0	1	,89	,333
Montevideo3	9	1	1	1,00	0,000
Buenos_Aires3	10	1	1	1,00	0,000
Porto_Novo3	10	0	1	,80	,422
Thimphu3	10	1	1	1,00	0,000
Phnom_Penh3	10	0	1	,90	,316
Zagreb3	10	0	1	,90	,316
Nikosia3	10	0	1	,80	,422
Athen3	10	1	1	1,00	0,000
Jakarta3	10	1	1	1,00	0,000
Jerusalem3	10	1	1	1,00	0,000
Astana3	10	0	1	,90	,316
Monrovia3	10	0	1	,80	,422
Lilongwe3	10	0	1	,80	,422
Palikir3	10	0	1	,90	,316
Maputo3	10	1	1	1,00	0,000
Yaren3	10	0	1	,90	,316
Kingstown3	10	0	1	,90	,316
Juba3	10	1	1	1,00	0,000
Paramaribo3	10	0	1	,70	,483
Ankara3	10	1	1	1,00	0,000
Belmopan3	11	0	1	,82	,405
Bogotá3	11	0	1	,82	,405
Brazzaville3	11	1	1	1,00	0,000

Kopenhagen3	11	0	1	,91	,302
Quito3	11	0	1	,82	,405
Paris3	11	1	1	1,00	0,000
Valletta3	11	0	1	,91	,302
Majuro3	11	0	1	,73	,467
Nouakchott3	11	0	1	,64	,505
Amsterdam3	11	0	1	,91	,302
Lima3	11	0	1	,82	,405
Manila3	11	0	1	,91	,302
Basseterre3	11	0	1	,73	,467
Riad3	11	1	1	1,00	0,000
Singapur_Stadt3	11	1	1	1,00	0,000
Kapstadt3	11	1	1	1,00	0,000
Seoul3	11	1	1	1,00	0,000
Madrid3	11	1	1	1,00	0,000
Port_of_Spain3	11	1	1	1,00	0,000
Tunis3	11	1	1	1,00	0,000
Abu_Dhabi3	11	1	1	1,00	0,000
Washington_DC3	11	1	1	1,00	0,000
Baku3	12	0	1	,92	,289
Nassau3	12	1	1	1,00	0,000
Brasília3	12	1	1	1,00	0,000
N_Djamena3	12	1	1	1,00	0,000
Berlin3	12	1	1	1,00	0,000
Accra3	12	0	1	,92	,289
St_Georges3	12	0	1	,92	,289
Conakry3	12	0	1	,92	,289
Bagdad3	12	0	1	,83	,389
Rom3	12	0	1	,92	,289
Kingston3	12	0	1	,92	,289
Nairobi3	12	1	1	1,00	0,000
South_Tarawa3	12	0	1	,92	,289
Podgorica3	12	0	1	,75	,452
Kathmandu3	12	1	1	1,00	0,000
Managua3	12	0	1	,83	,389
Jerusalem_P3	12	0	1	,83	,389
Bukarest3	12	1	1	1,00	0,000
Sao_Tomé3	12	1	1	1,00	0,000
Dakar3	12	1	1	1,00	0,000
Honiara3	12	0	1	,83	,389
Mbabane3	12	0	1	,83	,389
Stockholm3	12	1	1	1,00	0,000
Bern3	12	1	1	1,00	0,000
Kiew3	12	1	1	1,00	0,000
Port_Vila3	12	0	1	,75	,452

Badar_Seri_Begawan3	13	1	1	1,00	0,000
Yaoundé3	13	0	1	,92	,277
Kinshasa3	13	0	1	,85	,376
San_Salvador3	13	1	1	1,00	0,000
Suva3	13	0	1	,85	,376
Banjul3	13	0	1	,77	,439
Georgetown3	13	0	1	,85	,376
Reykjavík3	13	1	1	1,00	0,000
Dublin3	13	1	1	1,00	0,000
Vaduz3	13	1	1	1,00	0,000
Castries3	13	0	1	,85	,376
Mogadischu3	13	0	1	,77	,439
Aschgabat3	13	0	1	,92	,277
Sofia3	14	1	1	1,00	0,000
Guatemala_Stadt3	14	0	1	,93	,267
Neu_Dehli3	14	1	1	1,00	0,000
Tokio3	14	0	1	,93	,267
Chisinau3	14	0	1	,79	,426
Wellington3	14	1	1	1,00	0,000
Islamabad3	14	0	1	,93	,267
Warschau3	14	0	1	,93	,267
Kigali3	14	0	1	,71	,469
Victoria3	14	1	1	1,00	0,000
Dili3	14	0	1	,86	,363
Caracas3	14	0	1	,93	,267
Lusaka3	14	1	1	1,00	0,000
Eriwan3	15	0	1	,87	,352
Bujumbura3	15	1	1	1,00	0,000
Peking3	15	0	1	,93	,258
Santo_Domingo3	15	1	1	1,00	0,000
Libreville3	15	0	1	,87	,352
Tiflis3	15	0	1	,87	,352
Teheran3	15	0	1	,93	,258
Naypyidaw3	15	0	1	,93	,258
Pjöngjang3	15	0	1	,87	,352
Panama_Stadt3	15	1	1	1,00	0,000
Dodoma3	15	0	1	,80	,414
Dhaka3	16	0	1	,94	,250
Santiago_de_Chile3	16	1	1	1,00	0,000
Port_au_Prince3	16	1	1	1,00	0,000
Beirut3	16	0	1	,88	,342
Ulaanbaatar3	16	0	1	,88	,342
Doha3	16	0	1	,75	,447
San_Marino_Stadt3	16	1	1	1,00	0,000

Taipeh3	16	1	1	1,00	0,000
London3	16	1	1	1,00	0,000
Sanaa3	16	0	1	,88	,342
Roseau3	17	1	1	1,00	0,000
Malé3	17	0	1	,88	,332
Lissabon3	17	0	1	,94	,243
Lomé3	17	0	1	,82	,393
Hanoi3	17	1	1	1,00	0,000
Harare3	17	0	1	,88	,332
Ouagadougou3	18	0	1	,94	,236
Praia3	18	0	1	,94	,236
Dschibuti_Stadt3	18	1	1	1,00	0,000
Skopje3	18	0	1	,94	,236
Windhuk3	18	1	1	1,00	0,000
Bratislava3	18	1	1	1,00	0,000
Nuku_alofa3	18	0	1	,83	,383
Asmara3	19	0	1	,84	,375
Budapest3	19	1	1	1,00	0,000
Maseru3	19	0	1	,79	,419
Yamoussoukro3	20	0	1	,90	,308
Luxemburg_Stadt3	20	1	1	1,00	0,000
Brüssel3	21	0	1	,86	,359

Appendix B2.a WFK – frequency of item presentation, round 1

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
Andorra	0				
Algerien	1	1	1	1,00	
Palästina	1	1	1	1,00	
Afghanistan	2	0	1	,50	,707
Angola	2	1	1	1,00	0,000
Albanien	3	0	1	,67	,577
Schweden	3	1	1	1,00	0,000
Trinidad_und_Tobago	3	0	1	,67	,577
Antigua_und_Barbuda	4	0	1	,75	,500
Papua_Neuguinea	4	0	1	,75	,500
Taiwan	4	0	1	,50	,577
Portugal	5	1	1	1,00	0,000
Swasiland	5	0	1	,80	,447
Ukraine	5	0	1	,80	,447

Venezuela	5	0	1	,80	,447
Österreich	6	0	1	,83	,408
Zentralafrikanische_Republik	6	0	1	,67	,516
Pakistan	6	1	1	1,00	0,000
Palau	6	0	1	,33	,516
Paraguay	6	0	1	,67	,516
Peru	6	0	1	,83	,408
Russland	6	0	1	,83	,408
Ruanda	6	0	1	,83	,408
Salomonen	6	0	1	,83	,408
Spanien	6	1	1	1,00	0,000
Suriname	6	0	1	,83	,408
Vereinigtes_Königreich	6	1	1	1,00	0,000
Saudi_Arabien	7	0	1	,86	,378
Serbien	7	1	1	1,00	0,000
Schweiz	7	1	1	1,00	0,000
Timor_Leste	7	0	1	,71	,488
Tuvalu	7	1	1	1,00	0,000
Uruguay	7	0	1	,86	,378
Vanuatu	7	0	1	,29	,488
Tschad	8	0	1	,38	,518
Rumänien	8	0	1	,63	,518
St_Vincent_und_die_Grenadinen	8	0	1	,75	,463
San_Marino	8	0	1	,88	,354
Slowakei	8	1	1	1,00	0,000
Südsudan	8	0	1	,63	,518
Togo	8	1	1	1,00	0,000
Turkmenistan	8	0	1	,63	,518
Usbekistan	8	0	1	,88	,354
Armenien	9	0	1	,78	,441
Zypern	9	0	1	,78	,441
Äquatorialguinea	9	0	1	,89	,333
Philippinen	9	0	1	,67	,500
St_Kitts_und_Nevis	9	0	1	,78	,441
Seychellen	9	0	1	,89	,333
Vatikanstaat	9	0	1	,89	,333
Samibia	9	0	1	,89	,333
Argentinien	10	0	1	,70	,483
Republik_Kongo	10	0	1	,80	,422
Ägypten	10	0	1	,70	,483
St_Lucia	10	0	1	,90	,316
Sao_Tomé_und_Príncipe	10	0	1	,60	,516

Sierra_Leone	10	0	1	,70	,483
Singapur	10	0	1	,90	,316
Slowenien	10	1	1	1,00	0,000
Sri_Lanka	10	0	1	,80	,422
Syrien	10	1	1	1,00	0,000
Tonga	10	0	1	,40	,516
Türkei	10	0	1	,90	,316
Vereinigte_Staaten_von_Amerika	10	1	1	1,00	0,000
Simbabwe	10	0	1	,70	,483
Aserbaidschan	11	0	1	,91	,302
Weißrussland	11	0	1	,91	,302
Tunesien	11	0	1	,91	,302
Tschechien	12	0	1	,75	,452
Äthiopien	12	0	1	,75	,452
Panama	12	0	1	,75	,452
Tadschikistan	12	0	1	,67	,492
Tansania	12	0	1	,58	,515
Uganda	12	0	1	,50	,522
Polen	13	0	1	,77	,439
Südafrika	13	0	1	,85	,376
Südkorea	13	0	1	,69	,480
Senegal	14	0	1	,71	,469
Australien	15	0	1	,87	,352
Samoa	15	0	1	,80	,414
Thailand	15	0	1	,87	,352
Ungarn	16	0	1	,94	,250
Somalia	16	0	1	,75	,447
Vereinigte_Arabische_Emirate	17	0	1	,88	,332
Vietnam	18	0	1	,89	,323

Appendix B2. b WFK – frequency of item presentation, round 2

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
Andorra2	0				
Algerien2	1	1	1	1,00	
Palästina2	1	1	1	1,00	
Afghanistan2	2	1	1	1,00	0,000
Angola2	2	1	1	1,00	0,000
Albanien2	3	1	1	1,00	0,000
Schweden2	3	0	1	,67	,577

Trinidad_und_Tobago2	3	1	1	1,00	0,000
Antigua_und_Barbuda2	4	1	1	1,00	0,000
Papua_Neuguinea2	4	0	1	,75	,500
Taiwan2	4	0	1	,50	,577
Portugal2	5	1	1	1,00	0,000
Swasiland2	5	1	1	1,00	0,000
Ukraine2	5	1	1	1,00	0,000
Venezuela2	5	1	1	1,00	0,000
Österreich2	6	0	1	,50	,548
Zentralafrikanische_Republik2	6	1	1	1,00	0,000
Pakistan2	6	1	1	1,00	0,000
Palau2	6	0	1	,50	,548
Paraguay2	6	0	1	,83	,408
Peru2	6	0	1	,67	,516
Russland2	6	1	1	1,00	0,000
Ruanda2	6	0	1	,83	,408
Salomonen2	6	0	1	,67	,516
Spanien2	6	0	1	,83	,408
Suriname2	6	0	1	,67	,516
Vereinigtes_Königreich2	6	1	1	1,00	0,000
Saudi_Arabien2	7	1	1	1,00	0,000
Serbien2	7	1	1	1,00	0,000
Schweiz2	7	1	1	1,00	0,000
Timor_Leste2	7	0	1	,57	,535
Tuvalu2	7	1	1	1,00	0,000
Uruguay2	7	1	1	1,00	0,000
Vanuatu2	7	0	1	,71	,488
Tschad2	8	0	1	,88	,354
Rumänien2	8	1	1	1,00	0,000
St_Vincent_und_die_Grenadinen2	8	1	1	1,00	0,000
San_Marino2	8	0	1	,75	,463
Slowakei2	8	1	1	1,00	0,000
Südsudan2	8	1	1	1,00	0,000
Togo2	8	1	1	1,00	0,000
Turkmenistan2	8	0	1	,63	,518
Usbekistan2	8	0	1	,88	,354
Armenien2	9	0	1	,89	,333
Zypern2	9	1	1	1,00	0,000
Äquatorialguinea2	9	0	1	,78	,441
Philippinen2	9	0	1	,89	,333
St_Kitts_und_Nevis2	9	0	1	,89	,333

Seychellen2	9	0	1	,78	,441
Vatikanstaat2	9	1	1	1,00	0,000
Sambia2	9	0	1	,78	,441
Argentinien2	10	0	1	,80	,422
Republik_Kongo2	10	1	1	1,00	0,000
Ägypten2	10	0	1	,80	,422
St_Lucia2	10	0	1	,80	,422
Sao_Tomé_und_Príncipe2	10	0	1	,70	,483
Sierra_Leone2	10	0	1	,90	,316
Singapur2	10	0	1	,90	,316
Slowenien2	10	1	1	1,00	0,000
Sri_Lanka2	10	0	1	,90	,316
Syrien2	10	1	1	1,00	0,000
Tonga2	10	0	1	,90	,316
Türkei2	10	1	1	1,00	0,000
Vereinigte_Staaten_von_Amerika2	10	0	1	,90	,316
Simbabwe2	10	1	1	1,00	0,000
Aserbaidschan2	11	1	1	1,00	0,000
Weißrussland2	11	0	1	,91	,302
Tunesien2	11	0	1	,91	,302
Tschechien2	12	0	1	,92	,289
Äthiopien2	12	0	1	,83	,389
Panama2	12	0	1	,92	,289
Tadschikistan2	12	0	1	,75	,452
Tansania2	12	0	1	,92	,289
Uganda2	12	1	1	1,00	0,000
Polen2	13	0	1	,77	,439
Südafrika2	13	0	1	,92	,277
Südkorea2	13	1	1	1,00	0,000
Senegal2	14	1	1	1,00	0,000
Australien2	15	0	1	,80	,414
Samoa2	15	0	1	,87	,352
Thailand2	15	1	1	1,00	0,000
Ungarn2	16	1	1	1,00	0,000
Somalia2	16	0	1	,94	,250
Vereinigte_Arabische_Emirate2	17	0	1	,94	,243
Vietnam2	18	0	1	,94	,236

Appendix B2.c WFK – frequency of item presentation, round 3

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
Afghanistan3	2	1	1	1,00	,000
Albanien3	3	1	1	1,00	,000
Algerien3	1	0	0	,00	.
Andorra3	0				
Angola3	2	0	1	,50	,707
Antigua_und_Barbuda3	4	1	1	1,00	,000
Argentinien3	10	1	1	1,00	,000
Armenien3	9	1	1	1,00	,000
Australien3	15	0	1	,93	,258
Österreich3	6	1	1	1,00	,000
Aserbaidschan3	11	1	1	1,00	,000
Weißrussland3	11	0	1	,91	,302
Zentralafrikanische_Republik3	6	0	1	,83	,408
Tschad3	8	1	1	1,00	,000
Republik_Kongo3	10	1	1	1,00	,000
Zypern3	9	0	1	,89	,333
Tschechien3	12	0	1	,92	,289
Ägypten3	10	0	1	,90	,316
Äquatorialguinea3	9	0	1	,89	,333
Äthiopien3	12	0	1	,83	,389
Ungarn3	16	1	1	1,00	,000
Pakistan3	6	1	1	1,00	,000
Palau3	6	0	1	,83	,408
Palästina3	1	1	1	1,00	.
Panama3	12	1	1	1,00	,000
Papua_Neuguinea3	4	1	1	1,00	,000
Paraguay3	6	0	1	,83	,408
Peru3	6	1	1	1,00	,000
Philippinen3	9	0	1	,78	,441
Polen3	13	1	1	1,00	,000
Portugal3	5	0	1	,80	,447
Rumänien3	8	0	1	,88	,354
Russland3	6	1	1	1,00	,000
Ruanda3	6	0	1	,83	,408
St_Kitts_und_Nevis3	9	0	1	,89	,333
St_Lucia3	10	0	1	,80	,422
St_Vincent_und_die_Grenadinen3	8	1	1	1,00	,000
Samoa3	15	0	1	,80	,414
San_Marino3	8	0	1	,88	,354

Sao_Tomé_und_Príncipe3	10	0	1	,70	,483
Saudi_Arabien3	7	0	1	,86	,378
Senegal3	14	1	1	1,00	,000
Serbien3	7	0	1	,71	,488
Seychellen3	9	0	1	,89	,333
Sierra_Leone3	10	0	1	,90	,316
Singapur3	10	1	1	1,00	,000
Slowakei3	8	1	1	1,00	,000
Slowenien3	10	1	1	1,00	,000
Salomonen3	6	0	1	,67	,516
Somalia3	16	1	1	1,00	,000
Südafrika3	13	0	1	,92	,277
Südkorea3	13	0	1	,92	,277
Südsudan3	8	1	1	1,00	,000
Spanien3	6	1	1	1,00	,000
Sri_Lanka3	10	0	1	,90	,316
Suriname3	6	0	1	,83	,408
Swasiland3	5	0	1	,60	,548
Schweden3	3	1	1	1,00	,000
Schweiz3	7	1	1	1,00	,000
Syrien3	10	1	1	1,00	,000
Taiwan3	4	0	1	,75	,500
Tadschikistan3	12	0	1	,92	,289
Tansania3	12	1	1	1,00	,000
Thailand3	15	0	1	,93	,258
Timor_Leste3	7	1	1	1,00	,000
Togo3	8	1	1	1,00	,000
Tonga3	10	1	1	1,00	,000
Trinidad_und_Tobago3	3	1	1	1,00	,000
Tunesien3	11	0	1	,91	,302
Türkei3	10	1	1	1,00	,000
Turkmenistan3	8	0	1	,88	,354
Tuvalu3	7	1	1	1,00	,000
Uganda3	12	0	1	,75	,452
Ukraine3	5	1	1	1,00	,000
Vereinigte_Arabische_Emirate3	17	0	1	,88	,332
Vereinigtes_Königreich3	6	1	1	1,00	,000
Vereinigte_Staaten_von_Amerika3	10	1	1	1,00	,000
Uruguay3	7	0	1	,86	,378
Usbekistan3	8	0	1	,88	,354
Vanuatu3	7	1	1	1,00	,000
Vatikanstaat3	9	1	1	1,00	,000

Venezuela3	5	1	1	1,00	,000
Vietnam3	18	1	1	1,00	,000
Sambia3	9	0	1	,78	,441
Simbabwe3	10	0	1	,90	,316

Appendix B.3 AVT – frequencies of presented items

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
Menschen	0				
Programm	0				
Land	0				
Entwicklung	0				
Geschichte	0				
Januar	0				
Hilfe	0				
Angebot	0				
Schüler	0				
Projekt	0				
Konzept	0				
Auswahl	0				
Freunde	0				
Zeug	0				
Rauch	0				
Elektronik	0				
Gebet	0				
EinlageAVT	0				
Felsen	0				
Magen	0				
Bass	0				
Hingabe	0				
MandolineAVT	0				
Prise	0				
Gerangel	0				
Milz	0				
Garnitur	0				
Salve	0				
Zank	0				
Pritsche	0				
Gosse	0				
Drehbühne	0				
Formalität	0				
Flaum	0				
Ursuppe	0				

Systole	0				
Talkum	0				
Energetik	0				
Entblößung	0				
Kasuistik	0				
Kammerrat	0				
Minuskel	0				
Lutein	0				
Fähe	0				
Vigilanz	0				
Fatalität	0				
Grude	0				
Duckdalbe	0				
Fakultas	0				
Zukunft	6	0	1	,50	,548
Borte	6	1	1	1,00	0,000
UhrAVT	9	0	1	,78	,441
Stamm	9	1	1	1,00	0,000
Keder	9	0	1	,56	,527
Euro	10	0	1	,80	,422
Runde	10	1	1	1,00	0,000
Kandidatur	10	0	1	,90	,316
Offenheit	10	0	1	,90	,316
Fotografie	10	1	1	1,00	0,000
Beton	10	1	1	1,00	0,000
Unfug	10	1	1	1,00	0,000
Wange	10	1	1	1,00	0,000
Ticken	10	0	1	,90	,316
Anschnitt	10	1	1	1,00	0,000
Dissertant	10	0	1	,70	,483
Unitarier	10	0	1	,50	,527
Ort	11	0	1	,91	,302
Haus	11	0	1	,82	,405
Fenster	11	1	1	1,00	0,000
Stelle	11	0	1	,91	,302
Mehrheit	11	0	1	,73	,467
Wende	11	1	1	1,00	0,000
Gutachten	11	0	1	,91	,302
Saal	11	1	1	1,00	0,000
Ring	11	1	1	1,00	0,000
Kommune	11	0	1	,82	,405
Komponente	11	0	1	,91	,302
Gönner	11	0	1	,64	,505
Knäuel	11	0	1	,91	,302
Atheist	11	0	1	,64	,505
Proband	11	1	1	1,00	0,000
Krempel	11	1	1	1,00	0,000
Qualle	11	1	1	1,00	0,000
Indolenz	11	0	1	,91	,302

Ribose	11	0	1	,55	,522
Pomeranze	11	0	1	,82	,405
Eppich	11	0	1	,64	,505
Angaben	12	0	1	,75	,452
Anfang	12	0	1	,92	,289
Vorstand	12	0	1	,83	,389
Energie	12	0	1	,83	,389
Objekt	12	0	1	,92	,289
Anwesenheit	12	0	1	,83	,389
Steg	12	0	1	,92	,289
Kompliment	12	0	1	,92	,289
Granulat	12	0	1	,83	,389
Knabe	12	1	1	1,00	0,000
Geröll	12	0	1	,92	,289
Raupe	12	0	1	,92	,289
Woge	12	0	1	,92	,289
Tränke	12	0	1	,92	,289
Projektil	12	1	1	1,00	0,000
Anorak	12	1	1	1,00	0,000
Pöbel	12	0	1	,92	,289
Antilope	12	0	1	,83	,389
Aporie	12	0	1	,67	,492
mazeration	12	0	1	,58	,515
Betise	12	0	1	,42	,515
Leben	13	1	1	1,00	0,000
Weg	13	1	1	1,00	0,000
Mitte	13	0	1	,85	,376
Nacht	13	1	1	1,00	0,000
Vergangenheit	13	0	1	,92	,277
Einladung	13	0	1	,85	,376
Metall	13	0	1	,92	,277
Untergang	13	1	1	1,00	0,000
Unterwäsche	13	0	1	,54	,519
Finsternis	13	0	1	,92	,277
Delikt	13	1	1	1,00	0,000
Knöchel	13	0	1	,85	,376
Insasse	13	0	1	,69	,480
Plüsch	13	1	1	1,00	0,000
Torheit	13	0	1	,77	,439
Pigment	13	0	1	,54	,519
Käserei	13	1	1	1,00	0,000
Wohlleben	13	0	1	,77	,439
Fallbeil	13	0	1	,54	,519
Gaffer	13	0	1	,69	,480
Graduierung	13	0	1	,92	,277
Verputz	13	0	1	,62	,506
Gallert	13	0	1	,92	,277
Drain	13	0	1	,23	,439

Odium	13	0	1	,77	,439
Pege	13	0	1	,46	,519
Hospitalität	13	0	1	,85	,376
Kalesche	13	0	1	,46	,519
Prozent	14	1	1	1,00	0,000
Zeit	14	0	1	,93	,267
Millionen	14	0	1	,79	,426
Unternehmen	14	1	1	1,00	0,000
Art	14	1	1	1,00	0,000
Spieler	14	0	1	,93	,267
Interesse	14	0	1	,79	,426
Vorjahr	14	1	1	1,00	0,000
Handel	14	0	1	,86	,363
Masse	14	0	1	,93	,267
Hang	14	0	1	,86	,363
Drehbuch	14	0	1	,93	,267
Hubschrauber	14	0	1	,64	,497
Behauptung	14	0	1	,93	,267
Essig	14	1	1	1,00	0,000
Ausrede	14	0	1	,86	,363
Kartell	14	0	1	,86	,363
Gestrüpp	14	1	1	1,00	0,000
Euter	14	1	1	1,00	0,000
Ebola	14	1	1	1,00	0,000
Visage	14	1	1	1,00	0,000
Regest	14	0	1	,43	,514
Stichling	14	0	1	,79	,426
Trassierung	14	0	1	,57	,514
Determination	14	0	1	,93	,267
Bleuel	14	0	1	,71	,469
Depositum	14	0	1	,71	,469
Racke	14	0	1	,29	,469
Diphthong	14	0	1	,43	,514
Regiolekt	14	0	1	,64	,497
Diatonik	14	0	1	,64	,497
Jahr	15	0	1	,67	,488
Kinder	15	1	1	1,00	0,000
Rahmen	15	0	1	,67	,488
Entscheidung	15	0	1	,87	,352
Politik	15	0	1	,93	,258
Saison	15	0	1	,73	,458
Vorwurf	15	0	1	,93	,258
Hinsicht	15	0	1	,60	,507
Gebot	15	0	1	,73	,458
Mittelstand	15	0	1	,87	,352
Richtlinie	15	1	1	1,00	0,000
Mühle	15	0	1	,67	,488
Freistoß	15	0	1	,93	,258

Hauptsache	15	1	1	1,00	0,000
Gras	15	0	1	,87	,352
Kreatur	15	1	1	1,00	0,000
Wortschatz	15	0	1	,73	,458
Leitplanke	15	0	1	,93	,258
Zwirn	15	0	1	,87	,352
Reptil	15	1	1	1,00	0,000
Odem	15	0	1	,67	,488
Sporn	15	0	1	,80	,414
Panade	15	0	1	,87	,352
Skarabäus	15	0	1	,53	,516
Hysterese	15	0	1	,73	,458
Komplement	15	0	1	,87	,352
Fissur	15	0	1	,93	,258
Triole	15	0	1	,80	,414
Saturnalien	15	0	1	,53	,516
Konfluenz	15	0	1	,93	,258
Darg	15	0	0	0,00	0,000
Delkredere	15	0	1	,47	,516
Edaphon	15	0	1	,33	,488
Geld2	16	1	1	1,00	0,000
Woche	16	0	1	,94	,250
Version	16	0	1	,94	,250
Rückblick	16	0	1	,75	,447
Hüfte	16	1	1	1,00	0,000
Fund	16	1	1	1,00	0,000
Kapitalismus	16	0	1	,88	,342
Zitat	16	1	1	1,00	0,000
Kappe	16	0	1	,94	,250
Textur	16	1	1	1,00	0,000
Tablett	16	1	1	1,00	0,000
Kiemen	16	1	1	1,00	0,000
Unsitte	16	0	1	,88	,342
Hammel	16	0	1	,63	,500
Speiche	16	1	1	1,00	0,000
Einsiedelei	16	0	1	,50	,516
Klafter	16	0	1	,25	,447
Tartan	16	0	1	,69	,479
Sinter	16	0	1	,63	,500
Nekrolog	16	0	1	,44	,512
Profanierung	16	0	1	,50	,516
Mimese	16	0	1	,56	,512
Wirrsal	16	0	1	,69	,479
Exaltation	16	0	1	,63	,500
Dispensation	16	0	1	,75	,447
Dronte	16	0	1	,56	,512
Frau	17	0	1	,65	,493
Personen	17	1	1	1,00	0,000
Februar	17	0	1	,94	,243

Kreis	17	0	1	,71	,470
Werk	17	1	1	1,00	0,000
Anspruch	17	0	1	,82	,393
Griff	17	0	1	,94	,243
Kanton	17	0	1	,94	,243
Import	17	1	1	1,00	0,000
Röhre	17	1	1	1,00	0,000
Zwinger	17	1	1	1,00	0,000
MuschelAVT	17	1	1	1,00	0,000
Gehilfe	17	0	1	,94	,243
Orgon	17	0	1	,71	,470
Galland	17	0	1	,94	,243
Suada	17	0	1	,59	,507
Exploitation	17	0	1	,59	,507
Triptychon	17	0	1	,35	,493
Lukullus	17	0	1	,47	,514
Pentode	17	0	1	,65	,493
Eklipse	17	0	1	,94	,243
Estrade	17	0	1	,59	,507
Mahonie	17	0	1	,41	,507
Bereich	18	0	1	,94	,236
Mitarbeiter	18	0	1	,56	,511
Titel	18	0	1	,89	,323
Weise	18	1	1	1,00	0,000
Sinne	18	1	1	1,00	0,000
Tatort	18	1	1	1,00	0,000
Witwe	18	1	1	1,00	0,000
KnoblauchAVT	18	0	1	,94	,236
Erlaß	18	1	1	1,00	0,000
Meteorit	18	0	1	,89	,323
Eminenz	18	0	1	,72	,461
Bandit	18	0	1	,94	,236
Fraß	18	1	1	1,00	0,000
Dissident	18	0	1	,61	,502
Melasse	18	0	1	,89	,323
Worthülse	18	0	1	,50	,514
Hackbrett	18	0	1	,94	,236
Laren	18	0	1	,22	,428
Damast	18	0	1	,89	,323
Renitenz	18	0	1	,39	,502
Zedent	18	0	1	,17	,383
Uz	18	0	1	,50	,514
Majuskel	18	0	1	,72	,461
Estomihi	18	0	1	,39	,502
Grazilität	18	0	1	,94	,236
Palpe	18	0	1	,33	,485
Maiß	18	0	1	,94	,236
Kunden	19	0	1	,63	,496

Minuten	19	0	1	,95	,229
Grund	19	0	1	,95	,229
Beginn	19	1	1	1,00	0,000
KircheAVT	19	1	1	1,00	0,000
Krise	19	0	1	,42	,507
Herbst	19	1	1	1,00	0,000
Flug	19	0	1	,89	,315
Ansatz	19	0	1	,95	,229
Durchschnitt	19	0	1	,74	,452
Signal	19	0	1	,89	,315
Orkan	19	0	1	,84	,375
Kapuze	19	1	1	1,00	0,000
Beileid	19	0	1	,53	,513
Liege	19	1	1	1,00	0,000
Kataster	19	0	1	,84	,375
Auswurf	19	0	1	,37	,496
Einbaum	19	0	1	,63	,496
Unart	19	0	1	,68	,478
Larifari	19	1	1	1,00	0,000
Kosinus	19	0	1	,89	,315
Zagel	19	0	1	,58	,507
Farad	19	0	1	,68	,478
Stadt	20	0	1	,65	,489
Erfolg	20	0	1	,95	,224
Seite	20	0	1	,85	,366
Beispiel	20	0	1	,90	,308
Polizei	20	1	1	1,00	0,000
Meter	20	1	1	1,00	0,000
Ausstellung	20	0	1	,65	,489
Gebrauch	20	0	1	,95	,224
Freizeit	20	1	1	1,00	0,000
LupeAVT	20	0	1	,75	,444
Ausfahrt	20	0	1	,95	,224
Umland	20	1	1	1,00	0,000
Erreger	20	1	1	1,00	0,000
Mandant	20	0	1	,95	,224
Greis	20	0	1	,85	,366
Gewölbe	20	1	1	1,00	0,000
Juwelier	20	0	1	,95	,224
Nabel	20	0	1	,95	,224
Ochse	20	1	1	1,00	0,000
Euphemismus	20	0	1	,85	,366
Laizismus	20	0	1	,80	,410
Konnex	20	0	1	,75	,444
Extruder	20	0	1	,75	,444
Dissidenz	20	0	1	,75	,444
Surrogat	20	0	1	,25	,444
Synkope	20	0	1	,95	,224

Basilisk	20	0	1	,50	,513
Voland	20	0	1	,90	,308
Immanenz	20	0	1	,65	,489
Distinktion	20	0	1	,80	,410
Nuklid	20	0	1	,90	,308
Damnum	20	0	1	,80	,410
Pointierung	20	0	1	,85	,366
Zichorie	20	0	1	,60	,503
Arbeit	21	1	1	1,00	0,000
September	21	1	1	1,00	0,000
Punkte	21	1	1	1,00	0,000
Mannschaft	21	0	1	,76	,436
Wunsch	21	1	1	1,00	0,000
Stichwort	21	0	1	,90	,301
Leid	21	0	1	,90	,301
Kanzler	21	1	1	1,00	0,000
Pilot	21	0	1	,95	,218
Aufsicht	21	0	1	,90	,301
Ernte	21	1	1	1,00	0,000
Einnahme	21	0	1	,95	,218
Blech	21	0	1	,86	,359
Kolben	21	0	1	,95	,218
Konfetti	21	1	1	1,00	0,000
Maserung	21	1	1	1,00	0,000
Zeder	21	0	1	,81	,402
Bambule	21	0	1	,38	,498
Anriß	21	0	1	,81	,402
Urviech	21	0	1	,90	,301
Spiel	22	1	1	1,00	0,000
Freitag	22	0	1	,73	,456
Milliarden	22	1	1	1,00	0,000
Mai	22	1	1	1,00	0,000
Zuschauer	22	0	1	,73	,456
Blick	22	1	1	1,00	0,000
Firma	22	0	1	,95	,213
Abbau	22	0	1	,77	,429
BlüteAVT	22	0	1	,91	,294
TamburinAVT	22	0	1	,68	,477
Autokratie	22	0	1	,73	,456
Eleve	22	0	1	,64	,492
Kelim	22	0	1	,73	,456
Krage	22	0	1	,41	,503
Impertinenz	22	0	1	,86	,351
Laudation	22	0	1	,82	,395
Freske	22	0	1	,59	,503
Betel	22	0	1	,50	,512
Bund	23	0	1	,96	,209
FilmAVT	23	0	1	,96	,209
Stürmer	23	0	1	,91	,288

Arbeiter	23	0	1	,96	,209
Bibliothek	23	0	1	,96	,209
Vorsitz	23	1	1	1,00	0,000
Eisen	23	0	1	,96	,209
Koffer	23	1	1	1,00	0,000
Bär	23	1	1	1,00	0,000
Fasten	23	0	1	,91	,288
Ehrfurcht	23	0	1	,91	,288
Leihgabe	23	0	1	,91	,288
Füllhorn	23	0	1	,43	,507
Laib	23	0	1	,96	,209
Gedeih	23	1	1	1,00	0,000
Seeigel	23	0	1	,96	,209
Duplikat	23	1	1	1,00	0,000
Propfen	23	0	1	,48	,511
Hubbel	23	0	1	,39	,499
Kurvatur	23	0	1	,70	,470
Fußnote	24	0	1	,67	,482
Information	24	0	1	,96	,204
Internet	24	1	1	1,00	0,000
Verfügung	24	0	1	,92	,282
Mal	24	0	1	,96	,204
Buch	24	0	1	,71	,464
Finger	24	0	1	,96	,204
Taxi	24	1	1	1,00	0,000
Sozialismus	24	1	1	1,00	0,000
KühlschrankAVT	24	0	1	,63	,495
Sperre	24	0	1	,96	,204
Nichte	24	0	1	,92	,282
Trog	24	1	1	1,00	0,000
Grips	24	0	1	,92	,282
Gesinde	24	0	1	,71	,464
Flaneur	24	0	1	,83	,381
Ödem	24	0	1	,83	,381
Ragnarök	24	0	1	,29	,464
Emsigkeit	24	0	1	,83	,381
Gagat	24	0	1	,38	,495
Rezess	24	0	1	,71	,464
Platz	25	0	1	,84	,374
Rennen	25	0	1	,92	,277
Osmose	25	0	1	,92	,277
Löß	25	0	1	,68	,476
Plagge	25	0	1	,64	,490
Bordüre	25	0	1	,80	,408
Nonkonformismus	25	0	1	,56	,507
Gequassel	25	0	1	,80	,408
Annihilation	25	0	1	,56	,507
Luzidität	25	0	1	,80	,408

Teffillin	25	0	1	,40	,500
Ende	26	0	1	,85	,368
Unruhe	26	0	1	,77	,430
Tilgung	26	0	1	,92	,272
Getöse	26	0	1	,92	,272
Bambus	26	1	1	1,00	0,000
Gestirn	26	0	1	,92	,272
Ganove	26	0	1	,96	,196
Bulbus	26	0	1	,42	,504
Lanthan	26	0	1	,27	,452
Blache	26	0	1	,69	,471
Thema	27	0	1	,96	,192
Regierung	27	0	1	,96	,192
Netz	27	0	1	,96	,192
Haftbefehl	27	0	1	,96	,192
Klappe	27	0	1	,85	,362
Herpes	27	1	1	1,00	0,000
Uterus	27	1	1	1,00	0,000
Mitglieder	28	0	1	,89	,315
Hölle	28	0	1	,86	,356
Metzger	28	0	1	,93	,262
Dachboden	28	0	1	,61	,497
Pirsch	28	0	1	,93	,262
Bolus	28	0	1	,54	,508
Fazies	28	0	1	,71	,460
Proteolyse	28	0	1	,64	,488
Faszikel	28	0	1	,57	,504
Pfette	28	0	1	,50	,509
Mann	29	0	1	,86	,351
Wohnung	29	0	1	,97	,186
Sesam	29	0	1	,97	,186
Konvertit	29	0	1	,72	,455
Iguana	29	0	1	,69	,471
Kanapee	29	0	1	,72	,455
Atonalität	29	0	1	,72	,455
Skapulier	29	0	1	,52	,509
Bank	30	0	1	,87	,346
Besegelung	30	0	1	,57	,504
Odor	30	0	1	,40	,498
Dissimilation	30	0	1	,63	,490
Denudation	30	0	1	,70	,466
Teil	31	0	1	,94	,250
Mark	31	0	1	,97	,180
Recht	31	0	1	,90	,301
Veranstaltung	31	0	1	,97	,180
Gemeinde	31	1	1	1,00	0,000
Auftrieb	31	0	1	,84	,374
Pupille	31	0	1	,94	,250
Exitus	31	0	1	,87	,341

Typ	32	0	1	,78	,420
Kracher	32	1	1	1,00	0,000
Waffel	32	0	1	,78	,420
Mitose	32	0	1	,88	,336
Telegrafie	32	0	1	,91	,296
Flatulenz	32	0	1	,84	,369
Bild	33	1	1	1,00	0,000
Ziffer	33	0	1	,97	,174
Zampano	33	0	1	,64	,489
Prätention	33	0	1	,82	,392
Änderung	34	0	1	,74	,448
Parkett	34	1	1	1,00	0,000
Neuheit	34	0	1	,79	,410
Gehabe	34	0	1	,79	,410
Matrose	34	0	1	,79	,410
Hornisse	34	0	1	,68	,475
Kemenate	34	0	1	,68	,475
Welt	35	0	1	,91	,284
Raum	35	0	1	,86	,355
Geheimnis	35	0	1	,94	,236
Galerie	35	0	1	,97	,169
Wirbel	35	1	1	1,00	0,000
Aal	35	0	1	,83	,382
Butte	35	0	1	,71	,458
Gesülze	35	0	1	,71	,458
Aufputz	35	0	1	,97	,169
Vertiko	35	0	1	,86	,355
Frage	36	0	1	,94	,232
Abend	36	0	1	,86	,351
Dativ	36	0	1	,94	,232
Koautor	36	0	1	,92	,280
Chroniker	36	0	1	,58	,500
System	37	0	1	,97	,164
Fleisch	37	0	1	,92	,277
Segment	37	0	1	,84	,374
Hormon	37	0	1	,97	,164
Wichtung	37	0	1	,59	,498
Reporter	38	0	1	,66	,481
Regentin	38	0	1	,95	,226
Sprosse	38	0	1	,95	,226
Obsorge	38	0	1	,68	,471
Postament	38	0	1	,71	,460
Geld	39	1	1	1,00	0,000
Religion	39	0	1	,92	,270
Eierstich	39	0	1	,64	,486
Tag	40	0	1	,95	,221
Rolle	40	0	1	,98	,158
Revolution	40	0	1	,80	,405
Bauhof	40	0	1	,93	,267

Mehlbeere	40	0	1	,68	,474
Wuchter	41	0	1	,88	,331
Leste	41	0	1	,24	,435
Erde	42	0	1	,95	,216
Ausbeuter	42	0	1	,86	,354
Anmeldung	43	1	1	1,00	0,000
Fall	45	0	1	,96	,208
Nager	45	0	1	,87	,344
Hybris	45	0	1	,82	,387
Würdigkeit	45	0	1	,82	,387
Anpfiff	46	0	1	,78	,417
Geheiß	46	0	1	,76	,431

Appendix B.4 WS-S – Frequencies of presented items

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
Scramble4006	0				
Scramble4007	0				
Scramble4009	0				
Scramble4019	0				
Scramble4021	0				
Scramble4029	0				
Scramble4030	0				
Scramble4031	0				
Scramble4032	0				
Scramble4035	0				
Scramble4036	0				
Scramble4038	0				
Scramble4040	0				
Scramble4041	0				
Scramble4042	0				
Scramble4043	0				
Scramble4052	0				
Scramble4053	0				

Scramble4064	0				
Scramble4065	0				
Scramble4068	0				
Scramble4070	0				
Scramble4071	0				
Scramble4074	0				
Scramble4078	0				
Scramble4081	0				
Scramble4086	0				
Scramble4092	0				
Scramble4095	0				
Scramble4102	0				
Scramble5011	0				
Scramble5016	0				
Scramble5018	0				
Scramble5019	0				
Scramble5020	0				
Scramble5023	0				
Scramble5024	0				
Scramble5026	0				
Scramble5027	0				
Scramble5031	0				
Scramble5033	0				
Scramble5034	0				
Scramble5036	0				
Scramble5039	0				
Scramble5040	0				
Scramble5045	0				
Scramble5046	0				
Scramble5049	0				
Scramble5050	0				

Scramble5052	0				
Scramble5054	0				
Scramble5057	0				
Scramble5066	0				
Scramble5068	0				
Scramble5069	0				
Scramble5074	0				
Scramble5075	0				
Scramble5077	0				
Scramble5080	0				
Scramble5082	0				
Scramble5084	0				
Scramble5085	0				
Scramble5087	0				
Scramble5099	0				
Scramble5100	0				
Scramble5101	0				
Scramble5102	0				
Scramble6004	0				
Scramble6010	0				
Scramble6012	0				
Scramble6013	0				
Scramble6015	0				
Scramble6017	0				
Scramble6018	0				
Scramble6023	0				
Scramble6025	0				
Scramble6031	0				
Scramble6036	0				
Scramble6043	0				
Scramble6044	0				

Scramble6047	0				
Scramble6049	0				
Scramble6051	0				
Scramble6052	0				
Scramble6053	0				
Scramble6054	0				
Scramble6055	0				
Scramble6059	0				
Scramble6061	0				
Scramble6064	0				
Scramble6065	0				
Scramble6066	0				
Scramble6071	0				
Scramble6072	0				
Scramble6073	0				
Scramble6075	0				
Scramble6078	0				
Scramble6080	0				
Scramble6081	0				
Scramble6082	0				
Scramble6083	0				
Scramble6084	0				
Scramble6086	0				
Scramble6090	0				
Scramble6093	0				
Scramble6094	0				
Scramble6105	0				
Scramble6107	0				
Scramble6108	0				
Scramble6111	0				
Scramble6112	0				

Scramble6115	0				
Scramble7001	0				
Scramble7003	0				
Scramble7006	0				
Scramble7007	0				
Scramble7008	0				
Scramble7014	0				
Scramble7015	0				
Scramble7018	0				
Scramble7020	0				
Scramble7021	0				
Scramble7024	0				
Scramble7026	0				
Scramble7029	0				
Scramble7030	0				
Scramble7034	0				
Scramble7035	0				
Scramble7037	0				
Scramble7038	0				
Scramble7042	0				
Scramble7043	0				
Scramble7046	0				
Scramble7048	0				
Scramble7052	0				
Scramble7054	0				
Scramble7056	0				
Scramble7063	0				
Scramble7067	0				
Scramble7068	0				
Scramble7070	0				
Scramble7071	0				

Scramble7076	0				
Scramble7077	0				
Scramble7078	0				
Scramble7079	0				
Scramble7080	0				
Scramble7081	0				
Scramble7083	0				
Scramble7084	0				
Scramble7085	0				
Scramble7086	0				
Scramble7087	0				
Scramble7089	0				
Scramble7091	0				
Scramble7092	0				
Scramble7093	0				
Scramble7096	0				
Scramble7099	0				
Scramble7100	0				
Scramble7101	0				
Scramble7102	0				
Scramble7103	0				
Scramble7104	0				
Scramble7105	0				
Scramble7108	0				
Scramble7113	0				
Scramble7114	0				
Scramble7116	0				
Scramble7119	0				
Scramble7120	0				
Scramble7122	0				
Scramble7124	0				

Scramble7125	0				
Scramble7126	0				
Scramble7131	0				
Scramble7132	0				
Scramble7133	0				
Scramble7134	0				
Scramble7137	0				
Scramble8006	0				
Scramble8007	0				
Scramble8009	0				
Scramble8010	0				
Scramble8012	0				
Scramble8017	0				
Scramble8021	0				
Scramble8023	0				
Scramble8040	0				
Scramble8041	0				
Scramble8045	0				
Scramble8049	0				
Scramble8054	0				
Scramble8056	0				
Scramble8063	0				
Scramble8066	0				
Scramble8068	0				
Scramble8069	0				
Scramble8070	0				
Scramble8071	0				
Scramble8075	0				
Scramble8080	0				
Scramble8081	0				
Scramble8084	0				

Scramble8087	0				
Scramble8096	0				
Scramble8097	0				
Scramble8098	0				
Scramble8099	0				
Scramble8101	0				
Scramble8104	0				
Scramble8106	0				
Scramble8107	0				
Scramble9004	0				
Scramble9005	0				
Scramble9006	0				
Scramble9007	0				
Scramble9008	0				
Scramble9010	0				
Scramble9011	0				
Scramble9015	0				
Scramble9018	0				
Scramble9019	0				
Scramble9021	0				
Scramble9022	0				
Scramble9025	0				
Scramble9028	0				
Scramble9031	0				
Scramble9032	0				
Scramble9033	0				
Scramble9034	0				
Scramble9037	0				
Scramble9039	0				
Scramble9042	0				
Scramble9046	0				

Scramble9049	0				
Scramble9051	0				
Scramble9052	0				
Scramble9055	0				
Scramble9060	0				
Scramble9062	0				
Scramble9064	0				
Scramble9066	0				
Scramble9069	0				
Scramble9070	0				
Scramble9075	0				
Scramble9076	0				
Scramble9078	0				
Scramble9080	0				
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Scramble10046	2	0	1	,50	,707
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Scramble10097	2	0	0	0,00	0,000
Scramble10101	2	0	0	0,00	0,000
Scramble10102	2	0	0	0,00	0,000
Scramble10104	2	1	1	1,00	0,000
Scramble10108	2	0	1	,50	,707
Scramble10109	2	0	1	,50	,707
Scramble10119	2	0	0	0,00	0,000
Scramble4002	3	1	1	1,00	0,000
Scramble4010	3	0	1	,67	,577
Scramble4026	3	1	1	1,00	0,000
Scramble4034	3	0	1	,67	,577
Scramble4050	3	1	1	1,00	0,000
Scramble4066	3	0	1	,67	,577
Scramble4075	3	0	1	,33	,577
Scramble4083	3	1	1	1,00	0,000
Scramble4090	3	1	1	1,00	0,000
Scramble4103	3	1	1	1,00	0,000
Scramble5009	3	1	1	1,00	0,000
Scramble5025	3	1	1	1,00	0,000
Scramble5030	3	1	1	1,00	0,000
Scramble5061	3	0	0	0,00	0,000
Scramble5070	3	1	1	1,00	0,000
Scramble5073	3	1	1	1,00	0,000
Scramble5083	3	0	1	,33	,577
Scramble5095	3	1	1	1,00	0,000
Scramble6008	3	1	1	1,00	0,000
Scramble6033	3	0	1	,67	,577
Scramble6034	3	0	1	,67	,577

Scramble6056	3	0	1	,33	,577
Scramble6067	3	0	0	0,00	0,000
Scramble6091	3	0	0	0,00	0,000
Scramble7111	3	0	1	,33	,577
Scramble8038	3	0	0	0,00	0,000
Scramble8043	3	0	1	,33	,577
Scramble8046	3	1	1	1,00	0,000
Scramble8055	3	0	0	0,00	0,000
Scramble8057	3	0	1	,33	,577
Scramble8067	3	0	0	0,00	0,000
Scramble8073	3	0	0	0,00	0,000
Scramble8079	3	0	1	,33	,577
Scramble8082	3	0	1	,33	,577
Scramble8091	3	0	1	,33	,577
Scramble9044	3	0	1	,67	,577
Scramble9096	3	0	1	,67	,577
Scramble9107	3	0	1	,67	,577
Scramble9108	3	0	1	,33	,577
Scramble9116	3	0	0	0,00	0,000
Scramble10013	3	0	0	0,00	0,000
Scramble10032	3	0	1	,33	,577
Scramble10061	3	0	0	0,00	0,000
Scramble10063	3	0	0	0,00	0,000
Scramble10069	3	0	1	,33	,577
Scramble10076	3	0	1	,33	,577
Scramble10077	3	0	1	,33	,577
Scramble10092	3	0	0	0,00	0,000
Scramble4025	4	1	1	1,00	0,000
Scramble4045	4	0	1	,75	,500
Scramble4084	4	0	1	,50	,577
Scramble4097	4	1	1	1,00	0,000

Scramble5093	4	0	1	,25	,500
Scramble6014	4	0	0	0,00	0,000
Scramble6101	4	1	1	1,00	0,000
Scramble6106	4	0	1	,50	,577
Scramble7016	4	0	1	,50	,577
Scramble8086	4	0	1	,25	,500
Scramble9029	4	0	1	,50	,577
Scramble9119	4	0	0	0,00	0,000
Scramble10042	4	0	0	0,00	0,000
Scramble5079	5	0	1	,60	,548
Scramble4091	9	0	1	,11	,333
Scramble4048	10	0	1	,90	,316
Scramble4063	10	1	1	1,00	0,000

Appendix B.5 EST – frequencies of presented items

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
EST6	0				
EST15	0				
EST33	0				
EST61	0				
EST183	0				
EST203	0				
EST262	0				
EST264	0				
EST272	0				
EST279	0				
EST303	0				
EST317	0				
EST318	0				
EST360	0				
EST365	0				
EST417	0				
EST429	0				
EST474	0				
EST513	0				
EST566	0				
EST584	0				

EST587	0				
EST638	0				
EST666	0				
EST741	0				
EST14	1	1	1	1,00	
EST34	1	1	1	1,00	
EST35	1	1	1	1,00	
EST36	1	1	1	1,00	
EST65	1	1	1	1,00	
EST86	1	1	1	1,00	
EST92	1	1	1	1,00	
EST105	1	1	1	1,00	
EST126	1	1	1	1,00	
EST130	1	1	1	1,00	
EST133	1	1	1	1,00	
EST140	1	1	1	1,00	
EST149	1	1	1	1,00	
EST152	1	1	1	1,00	
EST156	1	1	1	1,00	
EST164	1	1	1	1,00	
EST165	1	1	1	1,00	
EST170	1	1	1	1,00	
EST180	1	1	1	1,00	
EST181	1	1	1	1,00	
EST196	1	1	1	1,00	
EST207	1	1	1	1,00	
EST229	1	1	1	1,00	
EST233	1	1	1	1,00	
EST248	1	1	1	1,00	
EST281	1	0	0	0,00	
EST283	1	1	1	1,00	
EST285	1	1	1	1,00	
EST294	1	1	1	1,00	
EST297	1	1	1	1,00	
EST325	1	1	1	1,00	
EST328	1	1	1	1,00	
EST332	1	1	1	1,00	
EST348	1	1	1	1,00	
EST378	1	1	1	1,00	
EST383	1	1	1	1,00	
EST391	1	1	1	1,00	
EST396	1	1	1	1,00	
EST399	1	1	1	1,00	
EST401	1	1	1	1,00	
EST416	1	1	1	1,00	
EST439	1	1	1	1,00	
EST466	1	1	1	1,00	
EST472	1	1	1	1,00	
EST490	1	1	1	1,00	

EST506	1	1	1	1,00	
EST507	1	1	1	1,00	
EST508	1	1	1	1,00	
EST540	1	1	1	1,00	
EST546	1	1	1	1,00	
EST553	1	1	1	1,00	
EST559	1	1	1	1,00	
EST563	1	1	1	1,00	
EST582	1	1	1	1,00	
EST603	1	1	1	1,00	
EST604	1	1	1	1,00	
EST607	1	1	1	1,00	
EST609	1	1	1	1,00	
EST612	1	1	1	1,00	
EST614	1	1	1	1,00	
EST628	1	1	1	1,00	
EST640	1	1	1	1,00	
EST646	1	1	1	1,00	
EST647	1	1	1	1,00	
EST654	1	1	1	1,00	
EST665	1	1	1	1,00	
EST683	1	1	1	1,00	
EST713	1	1	1	1,00	
EST718	1	1	1	1,00	
EST732	1	0	0	0,00	
EST750	1	1	1	1,00	
EST762	1	1	1	1,00	
EST763	1	1	1	1,00	
EST779	1	1	1	1,00	
EST5	2	1	1	1,00	0,000
EST7	2	1	1	1,00	0,000
EST12	2	1	1	1,00	0,000
EST16	2	1	1	1,00	0,000
EST19	2	1	1	1,00	0,000
EST23	2	1	1	1,00	0,000
EST27	2	1	1	1,00	0,000
EST37	2	1	1	1,00	0,000
EST38	2	1	1	1,00	0,000
EST42	2	1	1	1,00	0,000
EST67	2	1	1	1,00	0,000
EST68	2	1	1	1,00	0,000
EST76	2	1	1	1,00	0,000
EST79	2	1	1	1,00	0,000
EST83	2	1	1	1,00	0,000
EST84	2	1	1	1,00	0,000
EST87	2	1	1	1,00	0,000
EST90	2	1	1	1,00	0,000
EST96	2	1	1	1,00	0,000
EST98	2	1	1	1,00	0,000

EST102	2	1	1	1,00	0,000
EST107	2	1	1	1,00	0,000
EST125	2	1	1	1,00	0,000
EST139	2	1	1	1,00	0,000
EST141	2	1	1	1,00	0,000
EST147	2	1	1	1,00	0,000
EST159	2	1	1	1,00	0,000
EST169	2	1	1	1,00	0,000
EST173	2	1	1	1,00	0,000
EST174	2	1	1	1,00	0,000
EST179	2	1	1	1,00	0,000
EST189	2	1	1	1,00	0,000
EST191	2	1	1	1,00	0,000
EST204	2	1	1	1,00	0,000
EST210	2	1	1	1,00	0,000
EST212	2	1	1	1,00	0,000
EST213	2	1	1	1,00	0,000
EST217	2	1	1	1,00	0,000
EST218	2	1	1	1,00	0,000
EST219	2	1	1	1,00	0,000
EST225	2	1	1	1,00	0,000
EST230	2	1	1	1,00	0,000
EST234	2	1	1	1,00	0,000
EST239	2	1	1	1,00	0,000
EST243	2	1	1	1,00	0,000
EST244	2	1	1	1,00	0,000
EST246	2	1	1	1,00	0,000
EST257	2	1	1	1,00	0,000
EST260	2	1	1	1,00	0,000
EST270	2	1	1	1,00	0,000
EST274	2	1	1	1,00	0,000
EST291	2	1	1	1,00	0,000
EST301	2	1	1	1,00	0,000
EST302	2	1	1	1,00	0,000
EST306	2	1	1	1,00	0,000
EST319	2	1	1	1,00	0,000
EST327	2	1	1	1,00	0,000
EST334	2	1	1	1,00	0,000
EST335	2	1	1	1,00	0,000
EST337	2	1	1	1,00	0,000
EST339	2	1	1	1,00	0,000
EST351	2	1	1	1,00	0,000
EST353	2	1	1	1,00	0,000
EST361	2	1	1	1,00	0,000
EST362	2	1	1	1,00	0,000
EST367	2	1	1	1,00	0,000
EST368	2	1	1	1,00	0,000
EST393	2	1	1	1,00	0,000
EST403	2	1	1	1,00	0,000

EST404	2	1	1	1,00	0,000
EST405	2	1	1	1,00	0,000
EST406	2	1	1	1,00	0,000
EST409	2	1	1	1,00	0,000
EST410	2	1	1	1,00	0,000
EST415	2	1	1	1,00	0,000
EST420	2	1	1	1,00	0,000
EST424	2	1	1	1,00	0,000
EST426	2	1	1	1,00	0,000
EST443	2	1	1	1,00	0,000
EST447	2	1	1	1,00	0,000
EST448	2	0	1	,50	,707
EST449	2	1	1	1,00	0,000
EST452	2	1	1	1,00	0,000
EST462	2	1	1	1,00	0,000
EST468	2	1	1	1,00	0,000
EST471	2	1	1	1,00	0,000
EST479	2	1	1	1,00	0,000
EST491	2	1	1	1,00	0,000
EST496	2	1	1	1,00	0,000
EST498	2	0	1	,50	,707
EST511	2	1	1	1,00	0,000
EST524	2	1	1	1,00	0,000
EST536	2	1	1	1,00	0,000
EST543	2	1	1	1,00	0,000
EST547	2	1	1	1,00	0,000
EST549	2	1	1	1,00	0,000
EST564	2	1	1	1,00	0,000
EST565	2	1	1	1,00	0,000
EST571	2	1	1	1,00	0,000
EST573	2	1	1	1,00	0,000
EST577	2	1	1	1,00	0,000
EST581	2	1	1	1,00	0,000
EST591	2	1	1	1,00	0,000
EST592	2	1	1	1,00	0,000
EST596	2	1	1	1,00	0,000
EST597	2	0	1	,50	,707
EST601	2	1	1	1,00	0,000
EST602	2	1	1	1,00	0,000
EST606	2	1	1	1,00	0,000
EST631	2	1	1	1,00	0,000
EST633	2	1	1	1,00	0,000
EST636	2	0	1	,50	,707
EST641	2	1	1	1,00	0,000
EST642	2	1	1	1,00	0,000
EST650	2	1	1	1,00	0,000
EST651	2	1	1	1,00	0,000
EST652	2	0	1	,50	,707
EST655	2	1	1	1,00	0,000

EST658	2	1	1	1,00	0,000
EST662	2	1	1	1,00	0,000
EST663	2	1	1	1,00	0,000
EST668	2	1	1	1,00	0,000
EST675	2	0	1	,50	,707
EST676	2	1	1	1,00	0,000
EST684	2	1	1	1,00	0,000
EST691	2	1	1	1,00	0,000
EST695	2	1	1	1,00	0,000
EST696	2	1	1	1,00	0,000
EST698	2	1	1	1,00	0,000
EST699	2	1	1	1,00	0,000
EST705	2	1	1	1,00	0,000
EST717	2	0	1	,50	,707
EST726	2	1	1	1,00	0,000
EST733	2	1	1	1,00	0,000
EST734	2	1	1	1,00	0,000
EST738	2	1	1	1,00	0,000
EST742	2	1	1	1,00	0,000
EST743	2	1	1	1,00	0,000
EST745	2	1	1	1,00	0,000
EST746	2	0	1	,50	,707
EST751	2	1	1	1,00	0,000
EST753	2	1	1	1,00	0,000
EST759	2	1	1	1,00	0,000
EST766	2	1	1	1,00	0,000
EST767	2	1	1	1,00	0,000
EST769	2	1	1	1,00	0,000
EST770	2	1	1	1,00	0,000
EST777	2	1	1	1,00	0,000
EST789	2	0	1	,50	,707
EST790	2	0	1	,50	,707
EST795	2	1	1	1,00	0,000
EST798	2	1	1	1,00	0,000
EST800	2	1	1	1,00	0,000
EST10	3	1	1	1,00	0,000
EST21	3	1	1	1,00	0,000
EST22	3	1	1	1,00	0,000
EST31	3	1	1	1,00	0,000
EST39	3	1	1	1,00	0,000
EST40	3	1	1	1,00	0,000
EST43	3	1	1	1,00	0,000
EST51	3	1	1	1,00	0,000
EST55	3	1	1	1,00	0,000
EST62	3	1	1	1,00	0,000
EST72	3	1	1	1,00	0,000
EST78	3	1	1	1,00	0,000
EST88	3	1	1	1,00	0,000
EST89	3	1	1	1,00	0,000

EST91	3	1	1	1,00	0,000
EST94	3	1	1	1,00	0,000
EST99	3	1	1	1,00	0,000
EST101	3	1	1	1,00	0,000
EST103	3	1	1	1,00	0,000
EST104	3	1	1	1,00	0,000
EST112	3	1	1	1,00	0,000
EST116	3	1	1	1,00	0,000
EST118	3	1	1	1,00	0,000
EST131	3	1	1	1,00	0,000
EST134	3	1	1	1,00	0,000
EST135	3	1	1	1,00	0,000
EST137	3	1	1	1,00	0,000
EST142	3	1	1	1,00	0,000
EST143	3	1	1	1,00	0,000
EST144	3	1	1	1,00	0,000
EST154	3	1	1	1,00	0,000
EST157	3	1	1	1,00	0,000
EST166	3	1	1	1,00	0,000
EST168	3	1	1	1,00	0,000
EST176	3	0	1	,33	,577
EST177	3	1	1	1,00	0,000
EST182	3	1	1	1,00	0,000
EST185	3	1	1	1,00	0,000
EST188	3	1	1	1,00	0,000
EST190	3	1	1	1,00	0,000
EST200	3	1	1	1,00	0,000
EST205	3	1	1	1,00	0,000
EST214	3	1	1	1,00	0,000
EST215	3	1	1	1,00	0,000
EST220	3	0	1	,67	,577
EST222	3	1	1	1,00	0,000
EST223	3	1	1	1,00	0,000
EST235	3	1	1	1,00	0,000
EST237	3	1	1	1,00	0,000
EST242	3	1	1	1,00	0,000
EST249	3	0	1	,67	,577
EST255	3	1	1	1,00	0,000
EST266	3	1	1	1,00	0,000
EST267	3	1	1	1,00	0,000
EST268	3	1	1	1,00	0,000
EST269	3	1	1	1,00	0,000
EST273	3	1	1	1,00	0,000
EST275	3	1	1	1,00	0,000
EST282	3	1	1	1,00	0,000
EST284	3	1	1	1,00	0,000
EST300	3	1	1	1,00	0,000
EST304	3	1	1	1,00	0,000
EST307	3	1	1	1,00	0,000

EST308	3	1	1	1,00	0,000
EST309	3	1	1	1,00	0,000
EST310	3	1	1	1,00	0,000
EST311	3	1	1	1,00	0,000
EST321	3	1	1	1,00	0,000
EST322	3	1	1	1,00	0,000
EST323	3	1	1	1,00	0,000
EST326	3	1	1	1,00	0,000
EST333	3	1	1	1,00	0,000
EST338	3	1	1	1,00	0,000
EST352	3	1	1	1,00	0,000
EST356	3	0	1	,67	,577
EST375	3	1	1	1,00	0,000
EST377	3	1	1	1,00	0,000
EST379	3	1	1	1,00	0,000
EST380	3	0	1	,67	,577
EST382	3	1	1	1,00	0,000
EST384	3	1	1	1,00	0,000
EST385	3	1	1	1,00	0,000
EST387	3	1	1	1,00	0,000
EST389	3	1	1	1,00	0,000
EST390	3	1	1	1,00	0,000
EST407	3	1	1	1,00	0,000
EST431	3	1	1	1,00	0,000
EST433	3	1	1	1,00	0,000
EST435	3	1	1	1,00	0,000
EST436	3	1	1	1,00	0,000
EST437	3	1	1	1,00	0,000
EST442	3	1	1	1,00	0,000
EST453	3	1	1	1,00	0,000
EST456	3	1	1	1,00	0,000
EST460	3	1	1	1,00	0,000
EST464	3	1	1	1,00	0,000
EST467	3	1	1	1,00	0,000
EST470	3	1	1	1,00	0,000
EST475	3	0	1	,67	,577
EST480	3	1	1	1,00	0,000
EST481	3	1	1	1,00	0,000
EST484	3	1	1	1,00	0,000
EST492	3	1	1	1,00	0,000
EST493	3	1	1	1,00	0,000
EST494	3	1	1	1,00	0,000
EST502	3	1	1	1,00	0,000
EST503	3	1	1	1,00	0,000
EST505	3	1	1	1,00	0,000
EST509	3	1	1	1,00	0,000
EST516	3	1	1	1,00	0,000
EST517	3	1	1	1,00	0,000
EST527	3	1	1	1,00	0,000

EST528	3	1	1	1,00	0,000
EST529	3	1	1	1,00	0,000
EST530	3	1	1	1,00	0,000
EST532	3	1	1	1,00	0,000
EST534	3	1	1	1,00	0,000
EST535	3	0	1	,67	,577
EST542	3	1	1	1,00	0,000
EST555	3	1	1	1,00	0,000
EST558	3	1	1	1,00	0,000
EST561	3	1	1	1,00	0,000
EST590	3	0	1	,67	,577
EST594	3	1	1	1,00	0,000
EST616	3	1	1	1,00	0,000
EST619	3	0	1	,67	,577
EST649	3	1	1	1,00	0,000
EST661	3	1	1	1,00	0,000
EST667	3	1	1	1,00	0,000
EST674	3	1	1	1,00	0,000
EST680	3	0	1	,67	,577
EST682	3	1	1	1,00	0,000
EST686	3	1	1	1,00	0,000
EST688	3	1	1	1,00	0,000
EST690	3	0	1	,67	,577
EST692	3	0	1	,67	,577
EST697	3	1	1	1,00	0,000
EST700	3	1	1	1,00	0,000
EST701	3	0	1	,67	,577
EST707	3	1	1	1,00	0,000
EST709	3	1	1	1,00	0,000
EST710	3	1	1	1,00	0,000
EST712	3	0	1	,67	,577
EST714	3	1	1	1,00	0,000
EST715	3	1	1	1,00	0,000
EST735	3	0	1	,67	,577
EST740	3	0	1	,33	,577
EST747	3	1	1	1,00	0,000
EST749	3	1	1	1,00	0,000
EST761	3	1	1	1,00	0,000
EST764	3	1	1	1,00	0,000
EST765	3	1	1	1,00	0,000
EST776	3	1	1	1,00	0,000
EST778	3	1	1	1,00	0,000
EST783	3	1	1	1,00	0,000
EST786	3	0	1	,67	,577
EST791	3	1	1	1,00	0,000
EST793	3	1	1	1,00	0,000
EST4	4	0	1	,75	,500
EST8	4	1	1	1,00	0,000
EST9	4	1	1	1,00	0,000

EST11	4	1	1	1,00	0,000
EST13	4	1	1	1,00	0,000
EST20	4	1	1	1,00	0,000
EST24	4	1	1	1,00	0,000
EST25	4	1	1	1,00	0,000
EST32	4	1	1	1,00	0,000
EST45	4	1	1	1,00	0,000
EST49	4	0	1	,50	,577
EST50	4	1	1	1,00	0,000
EST54	4	1	1	1,00	0,000
EST56	4	1	1	1,00	0,000
EST57	4	1	1	1,00	0,000
EST71	4	1	1	1,00	0,000
EST73	4	1	1	1,00	0,000
EST74	4	1	1	1,00	0,000
EST82	4	1	1	1,00	0,000
EST85	4	1	1	1,00	0,000
EST93	4	1	1	1,00	0,000
EST97	4	1	1	1,00	0,000
EST106	4	1	1	1,00	0,000
EST110	4	1	1	1,00	0,000
EST111	4	1	1	1,00	0,000
EST114	4	0	1	,75	,500
EST117	4	1	1	1,00	0,000
EST119	4	1	1	1,00	0,000
EST122	4	1	1	1,00	0,000
EST127	4	1	1	1,00	0,000
EST128	4	1	1	1,00	0,000
EST132	4	1	1	1,00	0,000
EST145	4	1	1	1,00	0,000
EST148	4	1	1	1,00	0,000
EST158	4	1	1	1,00	0,000
EST160	4	1	1	1,00	0,000
EST162	4	1	1	1,00	0,000
EST171	4	1	1	1,00	0,000
EST186	4	1	1	1,00	0,000
EST193	4	1	1	1,00	0,000
EST195	4	1	1	1,00	0,000
EST208	4	1	1	1,00	0,000
EST211	4	1	1	1,00	0,000
EST231	4	1	1	1,00	0,000
EST236	4	1	1	1,00	0,000
EST238	4	1	1	1,00	0,000
EST240	4	1	1	1,00	0,000
EST241	4	1	1	1,00	0,000
EST252	4	1	1	1,00	0,000
EST256	4	1	1	1,00	0,000
EST261	4	1	1	1,00	0,000
EST263	4	1	1	1,00	0,000

EST265	4	1	1	1,00	0,000
EST289	4	1	1	1,00	0,000
EST290	4	1	1	1,00	0,000
EST292	4	1	1	1,00	0,000
EST293	4	1	1	1,00	0,000
EST305	4	1	1	1,00	0,000
EST316	4	0	1	,75	,500
EST320	4	1	1	1,00	0,000
EST336	4	1	1	1,00	0,000
EST343	4	1	1	1,00	0,000
EST344	4	1	1	1,00	0,000
EST349	4	0	1	,75	,500
EST354	4	1	1	1,00	0,000
EST358	4	1	1	1,00	0,000
EST363	4	1	1	1,00	0,000
EST366	4	1	1	1,00	0,000
EST370	4	1	1	1,00	0,000
EST374	4	1	1	1,00	0,000
EST388	4	1	1	1,00	0,000
EST398	4	1	1	1,00	0,000
EST402	4	0	1	,75	,500
EST411	4	1	1	1,00	0,000
EST413	4	1	1	1,00	0,000
EST419	4	1	1	1,00	0,000
EST423	4	1	1	1,00	0,000
EST430	4	1	1	1,00	0,000
EST432	4	1	1	1,00	0,000
EST438	4	1	1	1,00	0,000
EST445	4	0	1	,75	,500
EST457	4	0	1	,50	,577
EST458	4	1	1	1,00	0,000
EST463	4	0	1	,75	,500
EST469	4	1	1	1,00	0,000
EST473	4	0	1	,75	,500
EST482	4	0	1	,50	,577
EST488	4	1	1	1,00	0,000
EST501	4	1	1	1,00	0,000
EST512	4	1	1	1,00	0,000
EST514	4	1	1	1,00	0,000
EST515	4	1	1	1,00	0,000
EST522	4	0	1	,75	,500
EST525	4	1	1	1,00	0,000
EST533	4	1	1	1,00	0,000
EST538	4	1	1	1,00	0,000
EST544	4	1	1	1,00	0,000
EST556	4	1	1	1,00	0,000
EST569	4	1	1	1,00	0,000
EST572	4	1	1	1,00	0,000
EST574	4	1	1	1,00	0,000

EST583	4	1	1	1,00	0,000
EST585	4	1	1	1,00	0,000
EST589	4	1	1	1,00	0,000
EST593	4	1	1	1,00	0,000
EST598	4	1	1	1,00	0,000
EST599	4	1	1	1,00	0,000
EST600	4	1	1	1,00	0,000
EST610	4	0	1	,75	,500
EST611	4	1	1	1,00	0,000
EST618	4	1	1	1,00	0,000
EST622	4	1	1	1,00	0,000
EST624	4	1	1	1,00	0,000
EST629	4	1	1	1,00	0,000
EST632	4	1	1	1,00	0,000
EST639	4	0	1	,75	,500
EST659	4	0	1	,75	,500
EST672	4	1	1	1,00	0,000
EST681	4	0	1	,75	,500
EST703	4	1	1	1,00	0,000
EST719	4	1	1	1,00	0,000
EST731	4	1	1	1,00	0,000
EST737	4	1	1	1,00	0,000
EST744	4	1	1	1,00	0,000
EST748	4	0	1	,50	,577
EST756	4	1	1	1,00	0,000
EST757	4	1	1	1,00	0,000
EST768	4	0	1	,75	,500
EST773	4	1	1	1,00	0,000
EST785	4	0	1	,75	,500
EST788	4	1	1	1,00	0,000
EST794	4	0	1	,50	,577
EST796	4	1	1	1,00	0,000
EST799	4	1	1	1,00	0,000
EST28	5	1	1	1,00	0,000
EST30	5	1	1	1,00	0,000
EST46	5	1	1	1,00	0,000
EST47	5	1	1	1,00	0,000
EST48	5	1	1	1,00	0,000
EST59	5	1	1	1,00	0,000
EST66	5	1	1	1,00	0,000
EST70	5	1	1	1,00	0,000
EST77	5	1	1	1,00	0,000
EST80	5	1	1	1,00	0,000
EST81	5	1	1	1,00	0,000
EST95	5	1	1	1,00	0,000
EST124	5	1	1	1,00	0,000
EST129	5	1	1	1,00	0,000
EST138	5	1	1	1,00	0,000
EST146	5	1	1	1,00	0,000

EST161	5	1	1	1,00	0,000
EST175	5	1	1	1,00	0,000
EST187	5	1	1	1,00	0,000
EST197	5	1	1	1,00	0,000
EST201	5	1	1	1,00	0,000
EST209	5	1	1	1,00	0,000
EST224	5	1	1	1,00	0,000
EST228	5	0	1	,80	,447
EST253	5	1	1	1,00	0,000
EST258	5	1	1	1,00	0,000
EST259	5	1	1	1,00	0,000
EST286	5	1	1	1,00	0,000
EST295	5	1	1	1,00	0,000
EST299	5	1	1	1,00	0,000
EST314	5	0	1	,80	,447
EST324	5	1	1	1,00	0,000
EST331	5	1	1	1,00	0,000
EST341	5	1	1	1,00	0,000
EST350	5	1	1	1,00	0,000
EST369	5	0	1	,60	,548
EST381	5	1	1	1,00	0,000
EST392	5	1	1	1,00	0,000
EST395	5	1	1	1,00	0,000
EST400	5	1	1	1,00	0,000
EST408	5	1	1	1,00	0,000
EST414	5	0	1	,80	,447
EST421	5	1	1	1,00	0,000
EST427	5	1	1	1,00	0,000
EST441	5	1	1	1,00	0,000
EST444	5	1	1	1,00	0,000
EST446	5	1	1	1,00	0,000
EST455	5	1	1	1,00	0,000
EST459	5	1	1	1,00	0,000
EST465	5	1	1	1,00	0,000
EST477	5	0	1	,60	,548
EST487	5	1	1	1,00	0,000
EST489	5	1	1	1,00	0,000
EST497	5	0	1	,60	,548
EST499	5	0	1	,80	,447
EST500	5	0	1	,80	,447
EST518	5	1	1	1,00	0,000
EST519	5	1	1	1,00	0,000
EST521	5	0	1	,60	,548
EST531	5	0	1	,80	,447
EST552	5	1	1	1,00	0,000
EST560	5	1	1	1,00	0,000
EST562	5	1	1	1,00	0,000
EST570	5	1	1	1,00	0,000
EST575	5	1	1	1,00	0,000

EST576	5	1	1	1,00	0,000
EST620	5	0	1	,80	,447
EST621	5	0	1	,60	,548
EST625	5	0	1	,80	,447
EST634	5	0	1	,80	,447
EST643	5	1	1	1,00	0,000
EST644	5	1	1	1,00	0,000
EST653	5	1	1	1,00	0,000
EST657	5	1	1	1,00	0,000
EST670	5	1	1	1,00	0,000
EST678	5	1	1	1,00	0,000
EST689	5	1	1	1,00	0,000
EST704	5	1	1	1,00	0,000
EST706	5	1	1	1,00	0,000
EST708	5	0	1	,80	,447
EST721	5	1	1	1,00	0,000
EST724	5	1	1	1,00	0,000
EST725	5	0	1	,80	,447
EST729	5	1	1	1,00	0,000
EST739	5	0	1	,80	,447
EST771	5	1	1	1,00	0,000
EST780	5	1	1	1,00	0,000
EST781	5	1	1	1,00	0,000
EST787	5	1	1	1,00	0,000
EST44	6	1	1	1,00	0,000
EST53	6	1	1	1,00	0,000
EST63	6	1	1	1,00	0,000
EST113	6	1	1	1,00	0,000
EST172	6	1	1	1,00	0,000
EST178	6	1	1	1,00	0,000
EST184	6	1	1	1,00	0,000
EST192	6	1	1	1,00	0,000
EST226	6	1	1	1,00	0,000
EST247	6	1	1	1,00	0,000
EST254	6	1	1	1,00	0,000
EST271	6	1	1	1,00	0,000
EST278	6	1	1	1,00	0,000
EST312	6	1	1	1,00	0,000
EST355	6	1	1	1,00	0,000
EST386	6	1	1	1,00	0,000
EST495	6	0	1	,67	,516
EST520	6	1	1	1,00	0,000
EST537	6	1	1	1,00	0,000
EST545	6	1	1	1,00	0,000
EST548	6	0	1	,67	,516
EST550	6	0	1	,83	,408
EST557	6	0	1	,67	,516
EST568	6	1	1	1,00	0,000
EST579	6	0	1	,83	,408

EST580	6	1	1	1,00	0,000
EST613	6	0	1	,83	,408
EST630	6	1	1	1,00	0,000
EST645	6	1	1	1,00	0,000
EST669	6	1	1	1,00	0,000
EST671	6	1	1	1,00	0,000
EST687	6	1	1	1,00	0,000
EST694	6	0	1	,83	,408
EST722	6	0	1	,83	,408
EST723	6	1	1	1,00	0,000
EST730	6	0	1	,67	,516
EST755	6	1	1	1,00	0,000
EST758	6	1	1	1,00	0,000
EST775	6	1	1	1,00	0,000
EST797	6	1	1	1,00	0,000
EST2	7	1	1	1,00	0,000
EST26	7	1	1	1,00	0,000
EST52	7	1	1	1,00	0,000
EST58	7	1	1	1,00	0,000
EST108	7	1	1	1,00	0,000
EST136	7	1	1	1,00	0,000
EST155	7	1	1	1,00	0,000
EST198	7	1	1	1,00	0,000
EST232	7	1	1	1,00	0,000
EST288	7	1	1	1,00	0,000
EST329	7	0	1	,86	,378
EST330	7	1	1	1,00	0,000
EST342	7	1	1	1,00	0,000
EST347	7	1	1	1,00	0,000
EST371	7	1	1	1,00	0,000
EST397	7	1	1	1,00	0,000
EST440	7	1	1	1,00	0,000
EST454	7	0	1	,86	,378
EST461	7	1	1	1,00	0,000
EST510	7	1	1	1,00	0,000
EST539	7	1	1	1,00	0,000
EST578	7	1	1	1,00	0,000
EST605	7	1	1	1,00	0,000
EST615	7	1	1	1,00	0,000
EST660	7	0	1	,86	,378
EST673	7	1	1	1,00	0,000
EST677	7	1	1	1,00	0,000
EST720	7	1	1	1,00	0,000
EST752	7	1	1	1,00	0,000
EST792	7	1	1	1,00	0,000
EST150	8	1	1	1,00	0,000
EST199	8	0	1	,75	,463
EST277	8	0	1	,63	,518
EST373	8	1	1	1,00	0,000

EST394	8	1	1	1,00	0,000
EST418	8	1	1	1,00	0,000
EST595	8	1	1	1,00	0,000
EST685	8	1	1	1,00	0,000
EST41	9	1	1	1,00	0,000
EST115	9	1	1	1,00	0,000
EST167	9	1	1	1,00	0,000
EST250	9	1	1	1,00	0,000
EST296	9	1	1	1,00	0,000
EST425	9	0	1	,89	,333
EST434	9	0	1	,89	,333
EST451	9	1	1	1,00	0,000
EST478	9	0	1	,56	,527
EST486	9	0	1	,89	,333
EST504	9	1	1	1,00	0,000
EST541	9	0	1	,56	,527
EST554	9	1	1	1,00	0,000
EST608	9	0	1	,89	,333
EST623	9	1	1	1,00	0,000
EST626	9	1	1	1,00	0,000
EST664	9	1	1	1,00	0,000
EST711	9	0	1	,89	,333
EST716	9	1	1	1,00	0,000
EST772	9	1	1	1,00	0,000
EST774	9	1	1	1,00	0,000
EST784	9	1	1	1,00	0,000
EST3	10	1	1	1,00	0,000
EST69	10	1	1	1,00	0,000
EST75	10	1	1	1,00	0,000
EST194	10	1	1	1,00	0,000
EST276	10	1	1	1,00	0,000
EST280	10	1	1	1,00	0,000
EST287	10	1	1	1,00	0,000
EST376	10	1	1	1,00	0,000
EST428	10	1	1	1,00	0,000
EST450	10	0	1	,90	,316
EST483	10	1	1	1,00	0,000
EST635	10	1	1	1,00	0,000
EST637	10	0	1	,90	,316
EST648	10	1	1	1,00	0,000
EST656	10	1	1	1,00	0,000
EST728	10	0	1	,80	,422
EST760	10	1	1	1,00	0,000
EST17	11	1	1	1,00	0,000
EST64	11	1	1	1,00	0,000
EST100	11	1	1	1,00	0,000
EST120	11	1	1	1,00	0,000
EST221	11	1	1	1,00	0,000
EST251	11	1	1	1,00	0,000

EST340	11	0	1	,91	,302
EST359	11	1	1	1,00	0,000
EST364	11	0	1	,91	,302
EST372	11	1	1	1,00	0,000
EST476	11	0	1	,91	,302
EST485	11	1	1	1,00	0,000
EST567	11	0	1	,91	,302
EST617	11	0	1	,91	,302
EST627	11	1	1	1,00	0,000
EST736	11	0	1	,82	,405
EST782	11	0	1	,91	,302
EST29	12	1	1	1,00	0,000
EST109	12	1	1	1,00	0,000
EST123	12	1	1	1,00	0,000
EST151	12	1	1	1,00	0,000
EST202	12	1	1	1,00	0,000
EST206	12	1	1	1,00	0,000
EST216	12	1	1	1,00	0,000
EST227	12	1	1	1,00	0,000
EST313	12	1	1	1,00	0,000
EST586	12	0	1	,92	,289
EST702	12	1	1	1,00	0,000
EST754	12	1	1	1,00	0,000
EST121	13	0	1	,92	,277
EST153	13	1	1	1,00	0,000
EST245	13	0	1	,92	,277
EST345	13	1	1	1,00	0,000
EST357	13	1	1	1,00	0,000
EST551	13	1	1	1,00	0,000
EST588	13	1	1	1,00	0,000
EST679	13	0	1	,92	,277
EST727	13	0	1	,85	,376
EST18	14	1	1	1,00	0,000
EST60	14	1	1	1,00	0,000
EST346	14	1	1	1,00	0,000
EST523	14	1	1	1,00	0,000
EST315	15	1	1	1,00	0,000
EST1	16	0	1	,88	,342
EST298	16	0	1	,94	,250
EST412	16	0	1	,94	,250
EST163	17	0	1	,94	,243
EST422	18	0	1	,94	,236
EST526	19	1	1	1,00	0,000
EST693	22	0	1	,86	,351

Appendix B.6 SCT – frequencies of presented items

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
SCT1.1_A	0				
SCT2.1_A	0				
SCT2.2_A	0				
SCT3.1_A	0				
SCT3.12	0				
SCT3.2_A	0				
SCT3.3_A	0				
SCT4.1_A	0				
SCT4.2_A	0				
SCT4.3_A	0				
SCT5.1_A	0				
SCT5.2_A	0				
SCT5.3_A	0				
SCT6.1_A	0				
SCT6.2_A	0				
SCT6.27	0				
SCT6.3_A	0				
SCT7.1_A	0				
SCT7.11	0				
SCT7.2_A	0				
SCT7.29	0				
SCT7.3_A	0				
SCT8.1_A	0				
SCT8.2_A	0				
SCT8.23	0				
SCT8.3_A	0				
SCT9.1_A	0				
SCT9.2_A	0				
SCT9.3_A	0				
SCT10.1_A	0				
SCT10.12	0				
SCT10.2_A	0				
SCT11.1_A	0				
SCT11.2_A	0				
SCT11.3_A	0				
SCT12.8	0				
SCT12.1_A	0				
SCT12.2_A	0				
SCT12.3_A	0				
SCT13.1_A	0				
SCT13.2_A	0				
SCT13.26	0				
SCT13.3_A	0				

SCT14.1_A	0				
SCT14.2_A	0				
SCT14.3_A	0				
SCT15.1_A	0				
SCT15.2_A	0				
SCT15.3_A	0				
SCT2.16	1	1	1	1,00	
SCT2.21	1	1	1	1,00	
SCT3.4	1	1	1	1,00	
SCT3.19	1	1	1	1,00	
SCT3.23	1	1	1	1,00	
SCT3.27	1	1	1	1,00	
SCT4.15	1	1	1	1,00	
SCT4.17	1	1	1	1,00	
SCT4.19	1	1	1	1,00	
SCT4.23	1	1	1	1,00	
SCT5.7	1	1	1	1,00	
SCT5.15	1	1	1	1,00	
SCT5.22	1	1	1	1,00	
SCT5.23	1	1	1	1,00	
SCT5.24	1	1	1	1,00	
SCT6.26	1	1	1	1,00	
SCT6.33	1	1	1	1,00	
SCT7.7	1	1	1	1,00	
SCT8.21	1	1	1	1,00	
SCT9.14	1	0	0	0,00	
SCT9.15	1	1	1	1,00	
SCT10.17	1	1	1	1,00	
SCT10.19	1	1	1	1,00	
SCT10.22	1	1	1	1,00	
SCT11.3	1	1	1	1,00	
SCT11.22	1	1	1	1,00	
SCT11.23	1	1	1	1,00	
SCT12.5	1	1	1	1,00	
SCT12.23	1	1	1	1,00	
SCT12.26	1	1	1	1,00	
SCT13.7	1	1	1	1,00	
SCT14.18	1	1	1	1,00	
SCT14.27	1	0	0	0,00	
SCT15.8	1	1	1	1,00	
SCT15.11	1	1	1	1,00	
SCT15.12	1	1	1	1,00	
SCT2.6	2	1	1	1,00	0,000
SCT2.14	2	1	1	1,00	0,000
SCT3.11	2	0	1	,50	,707
SCT3.16	2	1	1	1,00	0,000
SCT3.17	2	1	1	1,00	0,000
SCT3.26	2	1	1	1,00	0,000
SCT4.5	2	1	1	1,00	0,000

SCT4.11	2	1	1	1,00	0,000
SCT4.18	2	1	1	1,00	0,000
SCT4.27	2	1	1	1,00	0,000
SCT4.28	2	1	1	1,00	0,000
SCT5.6	2	1	1	1,00	0,000
SCT5.16	2	1	1	1,00	0,000
SCT5.19	2	1	1	1,00	0,000
SCT5.27	2	1	1	1,00	0,000
SCT6.6	2	1	1	1,00	0,000
SCT6.9	2	1	1	1,00	0,000
SCT6.16	2	1	1	1,00	0,000
SCT6.17	2	0	1	,50	,707
SCT6.25	2	1	1	1,00	0,000
SCT6.34	2	1	1	1,00	0,000
SCT7.5	2	1	1	1,00	0,000
SCT7.9	2	0	1	,50	,707
SCT7.18	2	1	1	1,00	0,000
SCT7.24	2	1	1	1,00	0,000
SCT7.25	2	1	1	1,00	0,000
SCT7.32	2	1	1	1,00	0,000
SCT7.34	2	1	1	1,00	0,000
SCT8.1	2	0	1	,50	,707
SCT8.4	2	1	1	1,00	0,000
SCT8.5	2	1	1	1,00	0,000
SCT8.12	2	0	0	0,00	0,000
SCT8.18	2	1	1	1,00	0,000
SCT8.19	2	1	1	1,00	0,000
SCT8.24	2	1	1	1,00	0,000
SCT8.28	2	1	1	1,00	0,000
SCT9.7	2	1	1	1,00	0,000
SCT9.18	2	0	0	0,00	0,000
SCT9.19	2	0	0	0,00	0,000
SCT9.22	2	1	1	1,00	0,000
SCT9.26	2	1	1	1,00	0,000
SCT10.3	2	0	1	,50	,707
SCT10.25	2	1	1	1,00	0,000
SCT11.24	2	1	1	1,00	0,000
SCT11.29	2	1	1	1,00	0,000
SCT12.6	2	0	1	,50	,707
SCT12.21	2	1	1	1,00	0,000
SCT12.22	2	1	1	1,00	0,000
SCT13.5	2	1	1	1,00	0,000
SCT13.8	2	0	1	,50	,707
SCT13.9	2	0	1	,50	,707
SCT13.11	2	1	1	1,00	0,000
SCT13.14	2	1	1	1,00	0,000
SCT14.14	2	1	1	1,00	0,000
SCT14.19	2	1	1	1,00	0,000
SCT15.16	2	1	1	1,00	0,000

SCT15.18	2	0	1	,50	,707
SCT15.26	2	0	1	,50	,707
SCT15.27	2	1	1	1,00	0,000
SCT1.6	3	1	1	1,00	0,000
SCT2.9	3	1	1	1,00	0,000
SCT2.15	3	1	1	1,00	0,000
SCT2.18	3	1	1	1,00	0,000
SCT3.5	3	1	1	1,00	0,000
SCT3.18	3	1	1	1,00	0,000
SCT3.22	3	0	1	,67	,577
SCT3.28	3	1	1	1,00	0,000
SCT3.32	3	1	1	1,00	0,000
SCT3.33	3	1	1	1,00	0,000
SCT4.4	3	0	1	,67	,577
SCT4.16	3	1	1	1,00	0,000
SCT4.25	3	1	1	1,00	0,000
SCT4.26	3	1	1	1,00	0,000
SCT5.8	3	0	1	,33	,577
SCT5.12	3	1	1	1,00	0,000
SCT5.13	3	0	0	0,00	0,000
SCT5.25	3	1	1	1,00	0,000
SCT5.29	3	1	1	1,00	0,000
SCT6.1	3	1	1	1,00	0,000
SCT6.13	3	1	1	1,00	0,000
SCT6.14	3	1	1	1,00	0,000
SCT6.19	3	1	1	1,00	0,000
SCT6.23	3	1	1	1,00	0,000
SCT6.28	3	0	1	,67	,577
SCT6.29	3	1	1	1,00	0,000
SCT6.32	3	1	1	1,00	0,000
SCT7.4	3	1	1	1,00	0,000
SCT7.19	3	0	1	,67	,577
SCT7.26	3	0	0	0,00	0,000
SCT7.27	3	1	1	1,00	0,000
SCT7.33	3	0	1	,67	,577
SCT8.6	3	1	1	1,00	0,000
SCT8.13	3	1	1	1,00	0,000
SCT8.14	3	1	1	1,00	0,000
SCT8.15	3	1	1	1,00	0,000
SCT8.29	3	1	1	1,00	0,000
SCT9.8	3	1	1	1,00	0,000
SCT9.16	3	0	0	0,00	0,000
SCT9.17	3	0	0	0,00	0,000
SCT9.24	3	1	1	1,00	0,000
SCT9.25	3	0	0	0,00	0,000
SCT10.5	3	1	1	1,00	0,000
SCT10.16	3	1	1	1,00	0,000
SCT10.23	3	1	1	1,00	0,000
SCT11.9	3	0	1	,67	,577

SCT11.12	3	1	1	1,00	0,000
SCT11.14	3	0	1	,67	,577
SCT11.16	3	1	1	1,00	0,000
SCT11.17	3	1	1	1,00	0,000
SCT11.26	3	1	1	1,00	0,000
SCT12.13	3	1	1	1,00	0,000
SCT12.17	3	0	1	,67	,577
SCT12.25	3	1	1	1,00	0,000
SCT12.29	3	1	1	1,00	0,000
SCT13.4	3	1	1	1,00	0,000
SCT13.17	3	1	1	1,00	0,000
SCT13.27	3	1	1	1,00	0,000
SCT13.28	3	0	1	,67	,577
SCT14.1	3	1	1	1,00	0,000
SCT14.5	3	0	1	,67	,577
SCT14.11	3	1	1	1,00	0,000
SCT14.22	3	0	1	,33	,577
SCT14.28	3	0	1	,33	,577
SCT14.29	3	0	1	,67	,577
SCT15.5	3	0	1	,67	,577
SCT15.7	3	1	1	1,00	0,000
SCT15.13	3	0	1	,67	,577
SCT15.15	3	0	1	,67	,577
SCT15.19	3	1	1	1,00	0,000
SCT15.23	3	1	1	1,00	0,000
SCT15.24	3	0	1	,67	,577
SCT1.2	4	1	1	1,00	0,000
SCT1.13	4	1	1	1,00	0,000
SCT2.3	4	1	1	1,00	0,000
SCT2.5	4	1	1	1,00	0,000
SCT2.8	4	1	1	1,00	0,000
SCT2.13	4	0	1	,75	,500
SCT2.17	4	1	1	1,00	0,000
SCT2.19	4	1	1	1,00	0,000
SCT2.25	4	1	1	1,00	0,000
SCT3.9	4	1	1	1,00	0,000
SCT3.13	4	1	1	1,00	0,000
SCT3.14	4	0	1	,75	,500
SCT3.21	4	1	1	1,00	0,000
SCT3.25	4	1	1	1,00	0,000
SCT3.29	4	1	1	1,00	0,000
SCT4.6	4	1	1	1,00	0,000
SCT4.7	4	1	1	1,00	0,000
SCT4.8	4	1	1	1,00	0,000
SCT4.13	4	1	1	1,00	0,000
SCT4.14	4	1	1	1,00	0,000
SCT4.29	4	1	1	1,00	0,000
SCT5.1	4	1	1	1,00	0,000
SCT5.17	4	1	1	1,00	0,000

SCT5.18	4	1	1	1,00	0,000
SCT6.5	4	1	1	1,00	0,000
SCT6.15	4	1	1	1,00	0,000
SCT6.21	4	1	1	1,00	0,000
SCT6.22	4	1	1	1,00	0,000
SCT6.24	4	1	1	1,00	0,000
SCT7.12	4	1	1	1,00	0,000
SCT7.13	4	0	1	,75	,500
SCT7.14	4	1	1	1,00	0,000
SCT7.16	4	1	1	1,00	0,000
SCT7.21	4	1	1	1,00	0,000
SCT8.7	4	0	1	,75	,500
SCT8.16	4	1	1	1,00	0,000
SCT8.31	4	1	1	1,00	0,000
SCT9.4	4	0	0	0,00	0,000
SCT9.11	4	1	1	1,00	0,000
SCT9.13	4	0	1	,75	,500
SCT9.29	4	1	1	1,00	0,000
SCT10.11	4	1	1	1,00	0,000
SCT10.13	4	1	1	1,00	0,000
SCT10.15	4	1	1	1,00	0,000
SCT10.26	4	0	1	,75	,500
SCT10.28	4	0	1	,75	,500
SCT11.6	4	1	1	1,00	0,000
SCT11.11	4	0	1	,75	,500
SCT11.25	4	1	1	1,00	0,000
SCT11.27	4	0	1	,75	,500
SCT12.3	4	1	1	1,00	0,000
SCT12.9	4	0	1	,75	,500
SCT12.14	4	1	1	1,00	0,000
SCT12.16	4	0	1	,75	,500
SCT12.19	4	0	1	,75	,500
SCT12.24	4	0	1	,75	,500
SCT13.15	4	1	1	1,00	0,000
SCT13.22	4	1	1	1,00	0,000
SCT13.23	4	1	1	1,00	0,000
SCT13.25	4	1	1	1,00	0,000
SCT13.29	4	0	1	,75	,500
SCT14.9	4	1	1	1,00	0,000
SCT14.12	4	0	1	,50	,577
SCT14.15	4	1	1	1,00	0,000
SCT14.16	4	1	1	1,00	0,000
SCT14.23	4	1	1	1,00	0,000
SCT14.25	4	0	1	,50	,577
SCT15.3	4	0	1	,50	,577
SCT15.6	4	0	1	,50	,577
SCT15.22	4	0	1	,75	,500
SCT15.25	4	0	1	,50	,577
SCT1.5	5	1	1	1,00	0,000

SCT1.8	5	1	1	1,00	0,000
SCT2.4	5	1	1	1,00	0,000
SCT2.24	5	1	1	1,00	0,000
SCT3.2	5	0	1	,80	,447
SCT3.7	5	1	1	1,00	0,000
SCT4.12	5	1	1	1,00	0,000
SCT4.21	5	1	1	1,00	0,000
SCT4.24	5	1	1	1,00	0,000
SCT4.31	5	1	1	1,00	0,000
SCT4.32	5	1	1	1,00	0,000
SCT5.3	5	1	1	1,00	0,000
SCT5.14	5	1	1	1,00	0,000
SCT5.21	5	1	1	1,00	0,000
SCT5.31	5	1	1	1,00	0,000
SCT6.4	5	0	1	,80	,447
SCT6.7	5	1	1	1,00	0,000
SCT6.8	5	1	1	1,00	0,000
SCT6.18	5	1	1	1,00	0,000
SCT6.31	5	0	1	,80	,447
SCT7.6	5	1	1	1,00	0,000
SCT7.8	5	1	1	1,00	0,000
SCT7.23	5	1	1	1,00	0,000
SCT7.31	5	1	1	1,00	0,000
SCT8.9	5	1	1	1,00	0,000
SCT8.22	5	1	1	1,00	0,000
SCT8.25	5	1	1	1,00	0,000
SCT9.6	5	0	0	0,00	0,000
SCT9.28	5	1	1	1,00	0,000
SCT10.4	5	1	1	1,00	0,000
SCT10.7	5	1	1	1,00	0,000
SCT10.9	5	1	1	1,00	0,000
SCT10.21	5	0	1	,60	,548
SCT10.24	5	1	1	1,00	0,000
SCT11.2	5	0	1	,80	,447
SCT11.5	5	1	1	1,00	0,000
SCT11.15	5	0	1	,80	,447
SCT11.19	5	1	1	1,00	0,000
SCT12.7	5	1	1	1,00	0,000
SCT12.11	5	1	1	1,00	0,000
SCT12.18	5	0	1	,80	,447
SCT12.28	5	0	1	,80	,447
SCT13.13	5	1	1	1,00	0,000
SCT13.16	5	1	1	1,00	0,000
SCT13.19	5	0	1	,80	,447
SCT14.6	5	1	1	1,00	0,000
SCT14.7	5	0	1	,40	,548
SCT14.8	5	1	1	1,00	0,000
SCT14.13	5	1	1	1,00	0,000
SCT14.26	5	0	1	,80	,447

SCT15.4	5	0	1	,60	,548
SCT15.21	5	0	1	,60	,548
SCT1.11	6	1	1	1,00	0,000
SCT1.14	6	1	1	1,00	0,000
SCT2.7	6	1	1	1,00	0,000
SCT2.11	6	0	1	,83	,408
SCT3.1	6	1	1	1,00	0,000
SCT3.15	6	0	1	,83	,408
SCT3.24	6	1	1	1,00	0,000
SCT3.31	6	1	1	1,00	0,000
SCT4.9	6	1	1	1,00	0,000
SCT5.9	6	1	1	1,00	0,000
SCT5.11	6	0	1	,83	,408
SCT5.28	6	0	1	,83	,408
SCT6.3	6	0	1	,83	,408
SCT6.11	6	1	1	1,00	0,000
SCT7.2	6	1	1	1,00	0,000
SCT7.3	6	1	1	1,00	0,000
SCT7.15	6	0	1	,67	,516
SCT7.17	6	0	1	,67	,516
SCT7.28	6	1	1	1,00	0,000
SCT8.11	6	1	1	1,00	0,000
SCT8.17	6	0	1	,83	,408
SCT9.2	6	0	1	,67	,516
SCT9.3	6	0	1	,83	,408
SCT9.5	6	0	0	0,00	0,000
SCT9.21	6	1	1	1,00	0,000
SCT9.23	6	1	1	1,00	0,000
SCT10.1	6	1	1	1,00	0,000
SCT10.6	6	1	1	1,00	0,000
SCT10.18	6	1	1	1,00	0,000
SCT11.4	6	1	1	1,00	0,000
SCT11.7	6	1	1	1,00	0,000
SCT11.13	6	0	1	,50	,548
SCT11.28	6	1	1	1,00	0,000
SCT12.12	6	1	1	1,00	0,000
SCT12.15	6	1	1	1,00	0,000
SCT12.27	6	1	1	1,00	0,000
SCT13.6	6	1	1	1,00	0,000
SCT13.18	6	0	1	,83	,408
SCT13.24	6	0	1	,83	,408
SCT14.2	6	1	1	1,00	0,000
SCT14.4	6	0	1	,83	,408
SCT14.17	6	0	1	,83	,408
SCT14.21	6	0	1	,67	,516
SCT15.28	6	1	1	1,00	0,000
SCT2.23	7	1	1	1,00	0,000
SCT3.6	7	1	1	1,00	0,000
SCT3.8	7	1	1	1,00	0,000

SCT4.1	7	1	1	1,00	0,000
SCT5.4	7	1	1	1,00	0,000
SCT5.26	7	1	1	1,00	0,000
SCT6.12	7	0	1	,86	,378
SCT7.1	7	0	1	,86	,378
SCT7.22	7	0	1	,86	,378
SCT8.26	7	1	1	1,00	0,000
SCT8.27	7	0	1	,86	,378
SCT9.9	7	0	1	,14	,378
SCT9.12	7	0	1	,86	,378
SCT10.27	7	1	1	1,00	0,000
SCT11.1	7	1	1	1,00	0,000
SCT11.8	7	0	1	,86	,378
SCT11.18	7	0	1	,86	,378
SCT13.1	7	0	1	,71	,488
SCT13.21	7	1	1	1,00	0,000
SCT14.24	7	0	1	,86	,378
SCT15.14	7	0	1	,86	,378
SCT15.17	7	0	1	,86	,378
SCT1.3	8	1	1	1,00	0,000
SCT1.7	8	1	1	1,00	0,000
SCT1.9	8	1	1	1,00	0,000
SCT1.12	8	1	1	1,00	0,000
SCT1.16	8	1	1	1,00	0,000
SCT2.12	8	1	1	1,00	0,000
SCT4.3	8	1	1	1,00	0,000
SCT4.22	8	1	1	1,00	0,000
SCT8.3	8	1	1	1,00	0,000
SCT8.8	8	1	1	1,00	0,000
SCT9.27	8	1	1	1,00	0,000
SCT10.8	8	1	1	1,00	0,000
SCT11.21	8	0	1	,88	,354
SCT12.1	8	1	1	1,00	0,000
SCT13.2	8	1	1	1,00	0,000
SCT13.3	8	1	1	1,00	0,000
SCT13.12	8	1	1	1,00	0,000
SCT15.2	8	0	1	,75	,463
SCT15.29	8	0	1	,88	,354
SCT1.17	9	1	1	1,00	0,000
SCT2.1	9	1	1	1,00	0,000
SCT5.5	9	1	1	1,00	0,000
SCT9.1	9	0	1	,44	,527
SCT10.14	9	0	1	,78	,441
SCT15.9	9	0	1	,89	,333
SCT1.4	10	1	1	1,00	0,000
SCT1.15	10	1	1	1,00	0,000
SCT4.2	10	1	1	1,00	0,000
SCT6.2	10	0	1	,90	,316
SCT10.2	10	0	1	,90	,316

SCT12.2	10	0	1	,80	,422
SCT14.3	10	1	1	1,00	0,000
SCT15.1	10	0	1	,60	,516
SCT1.1	11	0	1	,91	,302
SCT3.3	11	1	1	1,00	0,000
SCT2.22	12	1	1	1,00	0,000
SCT5.2	12	0	1	,83	,389
SCT2.2	13	1	1	1,00	0,000
SCT8.2	13	1	1	1,00	0,000
SCT12.4	13	0	1	,92	,277

Appendix B.7 INT – frequency of item presentation

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
CD_ROM	0				
Fotoapparat	0				
@75	0				
Item112	0				
Rollmops	6	0	1	,83	,408
Panzer	7	1	1	1,00	0,000
Schatztruhe	7	1	1	1,00	0,000
Kolibri	7	1	1	1,00	0,000
Meerschwein	8	1	1	1,00	0,000
Huhn	8	1	1	1,00	0,000
Forelle	8	0	1	,75	,463
Batterie	8	1	1	1,00	0,000
Fotofilm	8	1	1	1,00	0,000
Turm	8	1	1	1,00	0,000
Saxophon	8	1	1	1,00	0,000
Dattelpalme	8	0	1	,50	,535
Schwammtuch	8	0	1	,63	,518
Ringelspiel	8	0	1	,88	,354
Clown	8	1	1	1,00	0,000
Graugans	8	0	1	,63	,518
Eheringe	8	1	1	1,00	0,000
Korkenzieher	9	1	1	1,00	0,000
Küchenmesser	9	1	1	1,00	0,000
Chili	9	1	1	1,00	0,000
Zecke	9	0	1	,78	,441
Garnele	9	0	1	,89	,333
Pfeife	9	1	1	1,00	0,000
Pflaster	9	1	1	1,00	0,000
Golfball	9	1	1	1,00	0,000

Segelflieger	9	1	1	1,00	0,000
Posaune	9	0	1	,56	,527
Jakobsmuschel	9	1	1	1,00	0,000
Fön	10	1	1	1,00	0,000
Vogelspinne	10	1	1	1,00	0,000
Milchflasche	10	1	1	1,00	0,000
Sandwich	10	1	1	1,00	0,000
Rotkraut	10	1	1	1,00	0,000
Ei	10	1	1	1,00	0,000
Oliven	10	1	1	1,00	0,000
Bagel	10	0	1	,70	,483
Globus	10	0	1	,90	,316
Safe	10	1	1	1,00	0,000
Rote_Rübe	10	1	1	1,00	0,000
Zwiebel3	10	1	1	1,00	0,000
Kopfhörer	10	1	1	1,00	0,000
Pinzette	10	1	1	1,00	0,000
Handschellen	10	1	1	1,00	0,000
Spreizdübel	10	0	1	,90	,316
Schiefertafel	10	1	1	1,00	0,000
Geldbörse	10	1	1	1,00	0,000
Rollstuhl	10	1	1	1,00	0,000
Orchidee	10	1	1	1,00	0,000
Filmkamera	10	1	1	1,00	0,000
Gabel	11	1	1	1,00	0,000
Waschmaschine	11	1	1	1,00	0,000
Bratpfanne	11	1	1	1,00	0,000
Wäscheklammer	11	0	1	,64	,505
Wasserpistole	11	1	1	1,00	0,000
Schulbus	11	1	1	1,00	0,000
Tischtennisschläger	11	1	1	1,00	0,000
Baseballschläger	11	0	1	,82	,405
Schuhe	11	1	1	1,00	0,000
Taschenlampe	11	1	1	1,00	0,000
Motorradhelm	11	1	1	1,00	0,000
Schlitten	11	1	1	1,00	0,000
Messer	11	1	1	1,00	0,000
Gitarre	11	1	1	1,00	0,000
Mandoline	11	0	1	,82	,405
Handschuhe	11	1	1	1,00	0,000
Violine	11	0	1	,91	,302
Maracas	11	0	1	,73	,467
Trompete	11	0	1	,91	,302
Datteln	11	0	1	,64	,505
Einlage	11	0	1	,64	,505

Böller_Knaller	11	0	1	,91	,302
Zündverteiler	11	0	1	,73	,467
Lüsterklemme	11	1	1	1,00	0,000
Christbaum	11	1	1	1,00	0,000
Geodreieck	11	0	1	,91	,302
Papierschiff	11	1	1	1,00	0,000
Goldkette	11	1	1	1,00	0,000
Hokkaido	11	1	1	1,00	0,000
Pfannenwender	12	1	1	1,00	0,000
Mais	12	1	1	1,00	0,000
Zwiebel	12	1	1	1,00	0,000
Pferd	12	1	1	1,00	0,000
Wassermelone	12	1	1	1,00	0,000
Brokkoli	12	1	1	1,00	0,000
Taube	12	1	1	1,00	0,000
Schwamm	12	1	1	1,00	0,000
Muschel	12	1	1	1,00	0,000
Wecker	12	1	1	1,00	0,000
Sattelschlepper	12	0	1	,92	,289
Grifftrainer	12	0	1	,92	,289
Nudelholz	12	1	1	1,00	0,000
Gasflasche	12	1	1	1,00	0,000
Puk	12	1	1	1,00	0,000
Maschinentelegraf	12	0	1	,75	,452
Schiffsschraube	12	1	1	1,00	0,000
Spinnrad	12	0	1	,92	,289
Kühlschrank	12	1	1	1,00	0,000
Trampeltier	12	0	1	,17	,389
Handy	12	1	1	1,00	0,000
Schallplatte	12	1	1	1,00	0,000
Synthesizer	12	0	1	,67	,492
Büstenhalter	12	1	1	1,00	0,000
Hühnerei	12	1	1	1,00	0,000
Brot2	12	1	1	1,00	0,000
Bonsai	12	1	1	1,00	0,000
Perücke	12	1	1	1,00	0,000
Blumendraht	12	0	1	,92	,289
Boxhandschuhe	12	1	1	1,00	0,000
Tintenglas	12	0	1	,92	,289
Aktenordner	12	1	1	1,00	0,000
Lötkolben	12	0	1	,92	,289
Bratwurst	12	1	1	1,00	0,000
Teekanne	13	1	1	1,00	0,000
Lupe	13	1	1	1,00	0,000
Löffel	13	1	1	1,00	0,000

Blumenkelle	13	1	1	1,00	0,000
Traube	13	1	1	1,00	0,000
Topfhandschuhe	13	1	1	1,00	0,000
Hund	13	1	1	1,00	0,000
Pfifferlinge	13	1	1	1,00	0,000
Teesieb	13	1	1	1,00	0,000
Radio	13	1	1	1,00	0,000
Regenschirm	13	1	1	1,00	0,000
Taschenmesser	13	0	1	,92	,277
Barren	13	0	1	,31	,480
Schachtel	13	0	1	,85	,376
Einkaufswagen	13	1	1	1,00	0,000
Mütze2	13	0	1	,77	,439
Kastenwagen	13	1	1	1,00	0,000
Baugerüst	13	1	1	1,00	0,000
Jeanshose	13	1	1	1,00	0,000
Bahngleis	13	0	1	,85	,376
E_Gitarre	13	0	1	,92	,277
Schach	13	1	1	1,00	0,000
Brettspiel	13	1	1	1,00	0,000
Motorrad	13	1	1	1,00	0,000
Rohrzange	13	0	1	,85	,376
Akkordeon	13	0	1	,92	,277
Bügelstation	13	1	1	1,00	0,000
Hanfkäuel	13	0	1	,85	,376
Schneidebrett	13	1	1	1,00	0,000
Zylinderschlüssel	13	0	1	,69	,480
Bügeleisen	13	0	1	,85	,376
Ohrenschützer	13	0	1	,85	,376
Diskette	13	1	1	1,00	0,000
Kupplung	13	0	1	,23	,439
Sicherheitsnadel	13	1	1	1,00	0,000
Aschenbecher	13	1	1	1,00	0,000
Kondensator	13	0	1	,15	,376
Kinderski	13	0	1	,85	,376
Elchgeweih	13	1	1	1,00	0,000
Schwimmweste	13	1	1	1,00	0,000
Weintrauben	13	1	1	1,00	0,000
Toilettenpapier	13	0	1	,92	,277
Tofu	13	1	1	1,00	0,000
Schwimmbrille	13	1	1	1,00	0,000
Seetang	13	0	1	,77	,439
Biene	14	0	1	,71	,469

Milchkanne	14	1	1	1,00	0,000
Kompass	14	1	1	1,00	0,000
Himbeere	14	1	1	1,00	0,000
Stachelbeere	14	1	1	1,00	0,000
Schubkarren	14	1	1	1,00	0,000
Rosmarin	14	1	1	1,00	0,000
Salat2	14	0	1	,79	,426
Spaten	14	0	1	,64	,497
Springschnur	14	1	1	1,00	0,000
Akkuladegerät	14	1	1	1,00	0,000
Wohnmobil	14	1	1	1,00	0,000
Pfeil	14	0	1	,93	,267
Papierflieger	14	1	1	1,00	0,000
Automobil	14	1	1	1,00	0,000
Keilriemen	14	0	1	,93	,267
Mütze	14	0	1	,93	,267
Schreibmaschine	14	1	1	1,00	0,000
Kasse	14	1	1	1,00	0,000
Akku	14	0	1	,86	,363
Beiwagenmaschine	14	0	1	,93	,267
Zwiebel2	14	1	1	1,00	0,000
Zange	14	0	1	,93	,267
Oxforder	14	0	1	,43	,514
Haselnuss2	14	1	1	1,00	0,000
Tamburin	14	0	1	,79	,426
Schlitten2	14	1	1	1,00	0,000
Trikitixa	14	0	0	0,00	0,000
Melodica	14	0	1	,79	,426
Achterbahn	14	0	1	,86	,363
Kübel	14	1	1	1,00	0,000
Tausendfüßer	14	1	1	1,00	0,000
Füllfeder	14	1	1	1,00	0,000
Rechenrahmen	14	0	1	,21	,426
Goldmünze	14	1	1	1,00	0,000
Arztkoffer	14	0	1	,93	,267
Anker	14	0	1	,86	,363
Motorboot	14	1	1	1,00	0,000
Messlöffel	14	1	1	1,00	0,000
Wendeltreppe	14	1	1	1,00	0,000
Kanguru	15	1	1	1,00	0,000
Teller	15	1	1	1,00	0,000
Megaphon	15	1	1	1,00	0,000
Mikrophon	15	1	1	1,00	0,000
Orange	15	1	1	1,00	0,000
Salat	15	1	1	1,00	0,000

Johannisbeere	15	0	1	,73	,458
Zirkel	15	1	1	1,00	0,000
Messstab	15	1	1	1,00	0,000
Schildkröte	15	1	1	1,00	0,000
Knoblauch	15	1	1	1,00	0,000
Blumenkohl	15	1	1	1,00	0,000
Schneebesen	15	1	1	1,00	0,000
Pistazien	15	1	1	1,00	0,000
Maki	15	1	1	1,00	0,000
Pfirsich	15	0	1	,93	,258
Buchsdornbeere	15	0	1	,93	,258
Platine	15	1	1	1,00	0,000
Bagger	15	0	1	,80	,414
Container	15	1	1	1,00	0,000
Ampel	15	1	1	1,00	0,000
Vorhangschloss	15	0	1	,93	,258
Klarinette	15	0	1	,80	,414
Metronom	15	1	1	1,00	0,000
Harfe	15	1	1	1,00	0,000
Motorsäge	15	0	1	,93	,258
Dirndl	15	1	1	1,00	0,000
Trolleykoffer	15	1	1	1,00	0,000
Conga	15	0	1	,20	,414
Handglocke	15	0	1	,93	,258
Plattenspieler	15	1	1	1,00	0,000
Harmonium2	15	0	1	,40	,507
Avocado2	15	1	1	1,00	0,000
Schiffsschraube2	15	0	1	,93	,258
Schraubenzieher	15	1	1	1,00	0,000
Bartagame	15	0	1	,27	,458
Schwamm3	15	1	1	1,00	0,000
Rasenmähroboter	15	0	1	,73	,458
Öllampe	15	0	1	,80	,414
Schlauchklemme	15	0	1	,93	,258
Zündholz	15	0	1	,73	,458
Schinken	15	0	1	,60	,507
Bergkristall	15	1	1	1,00	0,000
Salami	15	1	1	1,00	0,000
Ananas	16	1	1	1,00	0,000
Kirsche	16	1	1	1,00	0,000
Teigspachtel	16	0	1	,94	,250
Süßigkeitenautomat	16	1	1	1,00	0,000
Christbaumschmuck	16	1	1	1,00	0,000

Tonne	16	1	1	1,00	0,000
Radio2	16	1	1	1,00	0,000
Wohnwagenanhänger	16	1	1	1,00	0,000
Küken	16	0	1	,81	,403
Hubwagen	16	0	1	,63	,500
Blüte	16	1	1	1,00	0,000
Speerspitze	16	0	1	,81	,403
Pistole	16	1	1	1,00	0,000
Spielwürfel	16	1	1	1,00	0,000
Starkstromkabel	16	1	1	1,00	0,000
Teddiebär	16	1	1	1,00	0,000
Spielwürfel2	16	1	1	1,00	0,000
Mausefalle	16	1	1	1,00	0,000
Blasebalg	16	0	1	,81	,403
Tischventilator	16	1	1	1,00	0,000
Schraube	16	1	1	1,00	0,000
Crimpzange	16	0	1	,50	,516
Pommes	16	1	1	1,00	0,000
Hufeisen	16	1	1	1,00	0,000
Skorpion	16	1	1	1,00	0,000
Gartenschlauch	16	1	1	1,00	0,000
Messchieber2	16	1	1	1,00	0,000
Haken	16	1	1	1,00	0,000
Defibrillator	16	1	1	1,00	0,000
Messbecher	16	1	1	1,00	0,000
Wasserwaage	16	1	1	1,00	0,000
Bauzaun	16	0	1	,94	,250
Essstäbchen	16	1	1	1,00	0,000
Tablet_PC	16	1	1	1,00	0,000
Pappteller	16	1	1	1,00	0,000
Schraubenschlüssel	17	0	1	,53	,514
Melone	17	1	1	1,00	0,000
Schmetterling2	17	0	1	,94	,243
Erdnuss	17	0	1	,94	,243
Mörser	17	1	1	1,00	0,000
Wildschwein	17	1	1	1,00	0,000
Totenschädel	17	0	1	,94	,243
Zitronenscheiber	17	1	1	1,00	0,000
Autobatterie	17	1	1	1,00	0,000
Eishockeyschläger	17	0	1	,94	,243
Traktor	17	1	1	1,00	0,000
Gabelstapler	17	1	1	1,00	0,000
Hummer	17	0	1	,94	,243

Skateboard	17	1	1	1,00	0,000
Yam	17	0	1	,88	,332
Radieschen	17	1	1	1,00	0,000
Nähnadel	17	0	1	,94	,243
Vuvuzela	17	0	1	,82	,393
Notenständer	17	1	1	1,00	0,000
Plastiksack	17	1	1	1,00	0,000
Gemälderahmen	17	1	1	1,00	0,000
Horn	17	0	1	,88	,332
Rhabarbar	17	1	1	1,00	0,000
Sonnenbrille	17	1	1	1,00	0,000
Brezel	17	1	1	1,00	0,000
Rückenkratzer	17	1	1	1,00	0,000
Tyrannosaurus_Rex	17	0	1	,76	,437
Taschenrechner	17	1	1	1,00	0,000
Klappstuhl	17	0	1	,94	,243
Kuppelzelt	17	0	1	,88	,332
Handspiegel	17	0	1	,94	,243
Goldbarren	17	1	1	1,00	0,000
Chrysokoll	17	0	1	,29	,470
Rauchmelder	17	0	1	,94	,243
USB_Stick	17	1	1	1,00	0,000
Königspinguin	17	0	1	,94	,243
Käse	18	0	1	,89	,323
Elefant	18	1	1	1,00	0,000
Aubergine	18	1	1	1,00	0,000
Makrone	18	1	1	1,00	0,000
Geschirrspültabs	18	1	1	1,00	0,000
Braukessel	18	1	1	1,00	0,000
Solarpanel	18	0	1	,94	,236
Zylinder	18	0	1	,94	,236
Wasserpistole2	18	1	1	1,00	0,000
Gewehr	18	1	1	1,00	0,000
Patrone	18	1	1	1,00	0,000
Eiffelturm	18	1	1	1,00	0,000
Nähmaschine	18	1	1	1,00	0,000
Harmonium	18	0	1	,50	,514
Zither	18	0	1	,78	,428
Morsetelegraf	18	1	1	1,00	0,000
Klangschale	18	1	1	1,00	0,000
Olympia	18	1	1	1,00	0,000
Pfefferminze	18	0	1	,94	,236
Wassermelone2	18	1	1	1,00	0,000
Gießkanne	18	1	1	1,00	0,000

Vogelnest	18	1	1	1,00	0,000
Gummihammer	18	0	1	,83	,383
Kühltasche	18	0	1	,94	,236
Wolf	18	1	1	1,00	0,000
Doppeldeckerbus	18	1	1	1,00	0,000
Mistelzweig	18	1	1	1,00	0,000
Objektiv	18	1	1	1,00	0,000
Schwimmbecken	18	1	1	1,00	0,000
Gummibären	18	1	1	1,00	0,000
Semmelknödel	18	1	1	1,00	0,000
Zebra	19	1	1	1,00	0,000
Einmachglas	19	1	1	1,00	0,000
Erdbeere	19	1	1	1,00	0,000
Blaubeere	19	0	1	,95	,229
Chicorée	19	0	1	,95	,229
Gurke	19	1	1	1,00	0,000
Kiwi	19	1	1	1,00	0,000
Seil	19	1	1	1,00	0,000
Basketball	19	0	1	,95	,229
Starterkabel	19	1	1	1,00	0,000
Handgranate	19	1	1	1,00	0,000
Benzinkanister	19	1	1	1,00	0,000
Trommel	19	1	1	1,00	0,000
Sonnenblume	19	1	1	1,00	0,000
Blockflöte	19	1	1	1,00	0,000
Triangel	19	0	1	,89	,315
Gayageum	19	0	1	,42	,507
Curcuma	19	0	1	,74	,452
Bienenstock	19	0	1	,89	,315
Alufolie	19	0	1	,89	,315
Aktenkoffer	19	0	1	,74	,452
Zigarette	19	1	1	1,00	0,000
Eierkocher	19	1	1	1,00	0,000
Telefonzelle	19	1	1	1,00	0,000
Pastinake	19	1	1	1,00	0,000
Vanilleschote	19	1	1	1,00	0,000
Mixstab	20	1	1	1,00	0,000
Nudelsieb	20	1	1	1,00	0,000
Waage	20	1	1	1,00	0,000
Pinsel	20	0	1	,95	,224
Tiger	20	1	1	1,00	0,000
Schlange	20	1	1	1,00	0,000
Himbeeren	20	0	1	,95	,224
Eistüte	20	1	1	1,00	0,000
Uhr	20	1	1	1,00	0,000

Christbaumkugel	20	1	1	1,00	0,000
Fußball	20	1	1	1,00	0,000
Kondom	20	1	1	1,00	0,000
Batterie2	20	1	1	1,00	0,000
Expandertrainer	20	0	1	,70	,470
Tomahawk	20	1	1	1,00	0,000
Korken	20	1	1	1,00	0,000
Jeep	20	1	1	1,00	0,000
Ritterrüstung	20	1	1	1,00	0,000
Schlagzeug	20	1	1	1,00	0,000
Honig	20	1	1	1,00	0,000
Rohrzucker	20	0	1	,95	,224
Audiokassette	20	0	1	,95	,224
Freiheitsstatue	20	1	1	1,00	0,000
Wels	20	0	1	,95	,224
Notizblock	20	1	1	1,00	0,000
Druckpresse	20	0	1	,95	,224
Gasbrenner	20	0	1	,55	,510
Origami	20	1	1	1,00	0,000
Hängematte	20	0	1	,95	,224
Roller	20	1	1	1,00	0,000
Barometer	20	0	1	,85	,366
Yogamatte	20	0	1	,90	,308
Gondel	20	0	1	,95	,224
Ahornblatt	20	0	1	,80	,410
Tonkabohne	20	0	1	,80	,410
Kirche	20	1	1	1,00	0,000
Schmetterling	21	0	1	,95	,218
Grashüpfer	21	0	1	,86	,359
Sektglas	21	1	1	1,00	0,000
Messerschleifer	21	1	1	1,00	0,000
Avocado	21	1	1	1,00	0,000
Tasse	21	1	1	1,00	0,000
Papaya	21	1	1	1,00	0,000
Reibe	21	0	1	,90	,301
Autoschlüssel	21	1	1	1,00	0,000
Sektglas2	21	1	1	1,00	0,000
Diskus	21	0	1	,86	,359
Kurzhantel	21	1	1	1,00	0,000
Dartbrett	21	1	1	1,00	0,000
Roulettekessel	21	1	1	1,00	0,000
Handtuch	21	1	1	1,00	0,000
Herzmuschel	21	0	1	,62	,498
Drohen	21	1	1	1,00	0,000
Eiswürfel	21	1	1	1,00	0,000

Volleyball	21	0	1	,95	,218
Weißstorch	21	1	1	1,00	0,000
Amsel	22	0	1	,77	,429
Topf	22	1	1	1,00	0,000
Pistazie	22	0	1	,95	,213
Computer_Laptop	22	1	1	1,00	0,000
Motorroller	22	1	1	1,00	0,000
Schwamm2	22	1	1	1,00	0,000
Süßkartoffel	22	1	1	1,00	0,000
Knoblauch2	22	0	1	,91	,294
Würfelzucker	22	1	1	1,00	0,000
Grammophon	22	0	1	,95	,213
Tischglocke	22	1	1	1,00	0,000
Akustikgitarre	22	0	1	,86	,351
Werkzeugkasten	22	1	1	1,00	0,000
Orgel	22	1	1	1,00	0,000
Bongos	22	0	1	,91	,294
Gartenschere	22	0	1	,91	,294
Turmkran	22	0	1	,82	,395
Rettungsring	22	1	1	1,00	0,000
Zahnräder	22	1	1	1,00	0,000
Toaster	23	1	1	1,00	0,000
Zündkerze	23	1	1	1,00	0,000
Messschieber	23	0	1	,87	,344
Akkuschrauber	23	1	1	1,00	0,000
Schibrille	23	0	1	,74	,449
Motorblock	23	0	1	,91	,288
Wollknäuel	23	0	1	,96	,209
Netzstecker	23	0	1	,96	,209
Verkehrstafel	23	1	1	1,00	0,000
Heißluftballon	23	1	1	1,00	0,000
Pullover	23	1	1	1,00	0,000
Weizen	23	0	1	,83	,388
Diskokugel	23	1	1	1,00	0,000
Rindfleisch	23	1	1	1,00	0,000
Besen	24	1	1	1,00	0,000
Statue	24	1	1	1,00	0,000
Tischtennisball	24	0	1	,63	,495
Dampfwalze	24	0	1	,88	,338
Kette	24	1	1	1,00	0,000
Maßband	24	1	1	1,00	0,000
Heuwagen	24	0	1	,83	,381
Konservendose	24	1	1	1,00	0,000
Brombeere	25	1	1	1,00	0,000
Spargel	25	1	1	1,00	0,000
Schnittlauch	25	1	1	1,00	0,000

Tomate	25	1	1	1,00	0,000
Spielkarten	25	1	1	1,00	0,000
Sitar	25	0	1	,80	,408
Hafer	25	0	1	,56	,507
Auster	25	0	1	,96	,200
Rosenkranz	25	0	1	,96	,200
Marille	26	0	1	,92	,272
Käfer	26	1	1	1,00	0,000
Dartpfeil	26	1	1	1,00	0,000
Hut	26	1	1	1,00	0,000
Maultrommel	26	1	1	1,00	0,000
Rundbürste	26	0	1	,96	,196
Holzpalette	26	1	1	1,00	0,000
Rosmarin2	27	1	1	1,00	0,000
Haselnuss	27	1	1	1,00	0,000
Windrad	27	1	1	1,00	0,000
Spielfigur	27	1	1	1,00	0,000
Mensch_Ärgere_Dich_Nicht	27	0	1	,96	,192
Windmühle	27	1	1	1,00	0,000
Schnitzel	27	1	1	1,00	0,000
Paprika	28	1	1	1,00	0,000
Brot	28	1	1	1,00	0,000
Pilz	28	0	1	,96	,189
Turnhose	28	0	1	,93	,262
Seestern	28	1	1	1,00	0,000
Holzbausteine	28	0	1	,93	,262
Artischocke	28	1	1	1,00	0,000
Meerrettich	28	0	1	,93	,262
Saftpresse	29	0	1	,97	,186
Banane	29	1	1	1,00	0,000
Tintenpatrone	29	1	1	1,00	0,000
Ziegelstein	29	0	1	,97	,186
Sieb	30	1	1	1,00	0,000
Granatapfel	32	1	1	1,00	0,000
Birne	32	1	1	1,00	0,000
Kokosnuss	34	1	1	1,00	0,000
Glühbirne	36	0	1	,08	,280

Appendix B.8 VVT – frequency of presented items

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
MenschenVWT	0				

ProgrammVWT	0				
LandVWT	0				
EntwicklungVWT	0				
GeschichteVWT	0				
JanuarVWT	0				
HilfeVWT	0				
AngebotVWT	0				
SchülerVWT	0				
ProjektVWT	0				
KonzeptVWT	0				
AuswahlVWT	0				
FreundeVWT	0				
ZeugVWT	0				
RauchVWT	0				
ElektronikVWT	0				
GebetVWT	0				
EinlageVWT	0				
FelsenVWT	0				
MagenVWT	0				
BassVWT	0				
RuckVWT	0				
HingabeVWT	0				
MandolineVWT	0				
PriseVWT	0				
GerangelVWT	0				
MilzVWT	0				
GarniturVWT	0				
SalveVWT	0				
ZankVWT	0				
PritscheVWT	0				
GosseVWT	0				
DrehbühneVWT	0				
FormalitätVWT	0				
FlaumVWT	0				
UrsuppeVWT	0				
SystoleVWT	0				
TalkumVWT	0				
EnergetikVWT	0				
EntblößungVWT	0				
KasuistikVWT	0				
KammerratVWT	0				
MinuskelVWT	0				

LuteinVWT	0				
FäheVWT	0				
VigilanzVWT	0				
FatalitätVWT	0				
GrudeVWT	0				
DuckdalbeVWT	0				
FakultasVWT	0				
SurrogatVWT	4	0	1	,75	,500
FensterVWT	5	1	1	1,00	0,000
LupeVWT	5	0	1	,80	,447
KlappeVWT	5	1	1	1,00	0,000
WortschatzVWT	5	1	1	1,00	0,000
UnfugVWT	5	1	1	1,00	0,000
BlacheVWT	5	0	1	,60	,548
VerfügungVWT	6	1	1	1,00	0,000
GutachtenVWT	6	1	1	1,00	0,000
HüfteVWT	6	1	1	1,00	0,000
ZitatVWT	6	1	1	1,00	0,000
LeihgabeVWT	6	1	1	1,00	0,000
UnsitteVWT	6	0	1	,83	,408
AuswurfVWT	6	0	1	,50	,548
KonnexVWT	6	0	1	,50	,548
FlatulenzVWT	6	0	1	,67	,516
MaißVWT	6	1	1	1,00	0,000
FreitagVWT	7	0	1	,86	,378
SinneVWT	7	1	1	1,00	0,000
AnspruchVWT	7	0	1	,71	,488
WendeVWT	7	0	1	,86	,378
StegVWT	7	0	1	,86	,378
KnoblauchVWT	7	1	1	1,00	0,000
GeröllVWT	7	1	1	1,00	0,000
AtheistVWT	7	0	1	,86	,378
KatasterVWT	7	0	1	,43	,535
WunschVWT	8	1	1	1,00	0,000
RundeVWT	8	1	1	1,00	0,000
VorjahrVWT	8	0	1	,88	,354
StichwortVWT	8	1	1	1,00	0,000
RingVWT	8	1	1	1,00	0,000
GrasVWT	8	1	1	1,00	0,000
PupilleVWT	8	1	1	1,00	0,000
ZwirnVWT	8	0	1	,88	,354
WaffelVWT	8	1	1	1,00	0,000
ImmanenzVWT	8	0	1	,50	,535

AutokratieVWT	8	0	1	,88	,354
ZedentVWT	8	0	1	,38	,518
KederVWT	8	0	1	,50	,535
UnitarierVWT	8	0	1	,63	,518
ImpertinenzVWT	8	1	1	1,00	0,000
UzVWT	8	0	1	,13	,354
KurvaturVWT	8	0	1	,63	,518
ExaltationVWT	8	0	1	,88	,354
FreskeVWT	8	0	1	,88	,354
ZeitVWT	9	1	1	1,00	0,000
UnternehmenVWT	9	1	1	1,00	0,000
SeiteVWT	9	1	1	1,00	0,000
OrtVWT	9	1	1	1,00	0,000
BereichVWT	9	1	1	1,00	0,000
SpielVWT	9	1	1	1,00	0,000
PilotVWT	9	1	1	1,00	0,000
GebotVWT	9	1	1	1,00	0,000
EssigVWT	9	1	1	1,00	0,000
EhrfurchtVWT	9	0	1	,89	,333
KiemenVWT	9	0	1	,89	,333
OchseVWT	9	1	1	1,00	0,000
OdemVWT	9	0	1	,67	,500
KemenateVWT	9	0	1	,44	,527
FissurVWT	9	0	1	,89	,333
DispensationVWT	9	0	1	,67	,500
GrazilitätVWT	9	0	1	,78	,441
RegiolektVWT	9	0	1	,56	,527
DelkredereVWT	9	0	1	,44	,527
WegVWT	10	1	1	1,00	0,000
MalVWT	10	1	1	1,00	0,000
AbendVWT	10	1	1	1,00	0,000
RennenVWT	10	1	1	1,00	0,000
MetallVWT	10	1	1	1,00	0,000
KantonVWT	10	1	1	1,00	0,000
StammVWT	10	1	1	1,00	0,000
FundVWT	10	1	1	1,00	0,000
KomplimentVWT	10	0	1	,90	,316
JuwelierVWT	10	0	1	,90	,316
AalVWT	10	0	1	,90	,316
SesamVWT	10	1	1	1,00	0,000
FallbeilVWT	10	0	1	,60	,516
HackbrettVWT	10	0	1	,80	,422

DativVWT	10	0	1	,80	,422
LößVWT	10	0	1	,40	,516
GallandVWT	10	0	1	,60	,516
PlaggeVWT	10	0	1	,60	,516
TelegrafieVWT	10	1	1	1,00	0,000
NonkonformismusVWT	10	0	1	,70	,483
KomplementVWT	10	0	1	,90	,316
KosinusVWT	10	1	1	1,00	0,000
EmsigkeitVWT	10	0	1	,70	,483
DissertantVWT	10	0	1	,70	,483
PointierungVWT	10	1	1	1,00	0,000
LukullusVWT	10	0	1	,60	,516
HospitalitätVWT	10	0	1	,90	,316
FußnoteVWT	11	0	1	,84	,375
ProzentVWT	11	0	1	,91	,302
JahrVWT	11	1	1	1,00	0,000
KinderVWT	11	0	1	,91	,302
BildVWT	11	1	1	1,00	0,000
MaiVWT	11	0	1	,91	,302
BankVWT	11	0	1	,91	,302
SpielerVWT	11	0	1	,91	,302
WeiseVWT	11	1	1	1,00	0,000
NachtVWT	11	1	1	1,00	0,000
WohnungVWT	11	0	1	,82	,405
FreizeitVWT	11	1	1	1,00	0,000
HinsichtVWT	11	0	1	,82	,405
SaalVWT	11	1	1	1,00	0,000
FinsternisVWT	11	1	1	1,00	0,000
KreaturVWT	11	1	1	1,00	0,000
BeileidVWT	11	0	1	,91	,302
PlüschVWT	11	1	1	1,00	0,000
KonfettiVWT	11	1	1	1,00	0,000
MelasseVWT	11	1	1	1,00	0,000
VerputzVWT	11	0	1	,82	,405
FlaneurVWT	11	0	1	,45	,522
VisageVWT	11	1	1	1,00	0,000
DrainVWT	11	0	1	,64	,505
BasiliskVWT	11	0	1	,91	,302
RenitenzVWT	11	0	1	,73	,467
BleuelVWT	11	0	1	,55	,522
AnrißVWT	11	0	1	,64	,505
KelimVWT	11	0	1	,36	,505
DissimilationVWT	11	0	1	,73	,467

DronteVWT	11	0	1	,36	,505
UhrVWT	12	1	1	1,00	0,000
ThemaVWT	12	1	1	1,00	0,000
MarkVWT	12	1	1	1,00	0,000
FilmVWT	12	1	1	1,00	0,000
GriffVWT	12	1	1	1,00	0,000
GebrauchVWT	12	0	1	,92	,289
DurchschnittVWT	12	0	1	,75	,452
RückblickVWT	12	0	1	,58	,515
SegmentVWT	12	0	1	,92	,289
AusfahrtVWT	12	1	1	1,00	0,000
BetonVWT	12	1	1	1,00	0,000
SperreVWT	12	1	1	1,00	0,000
ZifferVWT	12	1	1	1,00	0,000
KappeVWT	12	1	1	1,00	0,000
WangeVWT	12	1	1	1,00	0,000
BanditVWT	12	0	1	,92	,289
PigmentVWT	12	1	1	1,00	0,000
GripsVWT	12	0	1	,92	,289
EuterVWT	12	0	1	,92	,289
GestirnVWT	12	0	1	,83	,389
ObsorgeVWT	12	0	1	,58	,515
KlafterVWT	12	0	1	,50	,522
HystereseVWT	12	0	1	,50	,522
VolandVWT	12	0	1	,75	,452
HubbelVWT	12	0	1	,58	,515
SinterVWT	12	0	1	,58	,515
SaturnalienVWT	12	0	1	,58	,515
PrätentionVWT	12	0	1	,67	,492
GagatVWT	12	0	1	,58	,515
MajuskelVWT	12	0	1	,33	,492
Geld2VWT	13	1	1	1,00	0,000
PersonenVWT	13	0	1	,85	,376
PolitikVWT	13	1	1	1,00	0,000
WerkVWT	13	1	1	1,00	0,000
RevolutionVWT	13	1	1	1,00	0,000
KapitalismusVWT	13	1	1	1,00	0,000
RichtlinieVWT	13	0	1	,92	,277
WitweVWT	13	1	1	1,00	0,000
MandantVWT	13	0	1	,85	,376
GreisVWT	13	1	1	1,00	0,000
OrkanVWT	13	0	1	,85	,376
KolbenVWT	13	1	1	1,00	0,000

LiegeVWT	13	1	1	1,00	0,000
TrogVWT	13	0	1	,92	,277
ZederVWT	13	0	1	,85	,376
ZampanoVWT	13	0	1	,62	,506
LarifariVWT	13	0	1	,77	,439
RagnarökVWT	13	0	1	,62	,506
BorteVWT	13	0	1	,77	,439
NuklidVWT	13	0	1	,62	,506
UrviechVWT	13	0	1	,85	,376
RiboseVWT	13	0	1	,62	,506
AnnihilationVWT	13	0	1	,62	,506
WichtungVWT	13	0	1	,69	,480
EstradeVWT	13	0	1	,77	,439
DenudationVWT	13	0	1	,69	,480
TeffillinVWT	13	0	1	,69	,480
ÄnderungVWT	14	0	1	,50	,519
ErfolgVWT	14	0	1	,86	,363
HausVWT	14	1	1	1,00	0,000
MitarbeiterVWT	14	1	1	1,00	0,000
BlickVWT	14	1	1	1,00	0,000
MannschaftVWT	14	0	1	,93	,267
SaisonVWT	14	1	1	1,00	0,000
KreisVWT	14	1	1	1,00	0,000
VersionVWT	14	1	1	1,00	0,000
HangVWT	14	0	1	,93	,267
AuftriebVWT	14	1	1	1,00	0,000
TaxiVWT	14	1	1	1,00	0,000
BärVWT	14	0	1	,93	,267
MetzgerVWT	14	1	1	1,00	0,000
AusredeVWT	14	1	1	1,00	0,000
ErlaßVWT	14	1	1	1,00	0,000
TablettVWT	14	1	1	1,00	0,000
WogeVWT	14	0	1	,86	,363
TränkeVWT	14	0	1	,86	,363
EminenzVWT	14	0	1	,93	,267
SpeicheVWT	14	0	1	,93	,267
GesindeVWT	14	0	1	,71	,469
AnschnittVWT	14	1	1	1,00	0,000
DissidenzVWT	14	0	1	,64	,497
TrioleVWT	14	0	1	,57	,514
ExploitationVWT	14	0	1	,57	,514
BulbusVWT	14	0	1	,50	,519

FaszikelVWT	14	0	1	,79	,426
BetelVWT	14	0	1	,50	,519
SkapulierVWT	14	0	1	,43	,514
EndeVWT	15	0	1	,93	,258
BeispielVWT	15	1	1	1,00	0,000
KundenVWT	15	1	1	1,00	0,000
HandelVWT	15	1	1	1,00	0,000
KriseVWT	15	1	1	1,00	0,000
HerbstVWT	15	1	1	1,00	0,000
AnsatzVWT	15	1	1	1,00	0,000
ObjektVWT	15	1	1	1,00	0,000
VorwurfVWT	15	0	1	,93	,258
BibliothekVWT	15	1	1	1,00	0,000
HölleVWT	15	0	1	,87	,352
KandidaturVWT	15	1	1	1,00	0,000
MühleVWT	15	0	1	,87	,352
KühlschrankVWT	15	0	1	,80	,414
ErregerVWT	15	1	1	1,00	0,000
KracherVWT	15	0	1	,93	,258
KnäuelVWT	15	1	1	1,00	0,000
ProbandVWT	15	0	1	,93	,258
KäsereiVWT	15	0	1	,87	,352
SeeigelVWT	15	1	1	1,00	0,000
TickenVWT	15	0	1	,80	,414
EuphemismusVWT	15	0	1	,73	,458
GraduierungVWT	15	1	1	1,00	0,000
OsmoseVWT	15	0	1	,87	,352
UnartVWT	15	0	1	,87	,352
BambuleVWT	15	0	1	,33	,488
TrassierungVWT	15	0	1	,73	,458
MazerationVWT	15	0	1	,47	,516
OdiumVWT	15	0	1	,67	,488
InternetVWT	16	1	1	1,00	0,000
PolizeiVWT	16	1	1	1,00	0,000
SeptemberVWT	16	1	1	1,00	0,000
TitelVWT	16	1	1	1,00	0,000
FirmaVWT	16	0	1	,88	,342
ArbeiterVWT	16	1	1	1,00	0,000
MasseVWT	16	1	1	1,00	0,000
VorsitzVWT	16	0	1	,94	,250
ReporterVWT	16	0	1	,94	,250
HauptsacheVWT	16	0	1	,94	,250

SozialismusVWT	16	1	1	1,00	0,000
TilgungVWT	16	0	1	,88	,342
BambusVWT	16	1	1	1,00	0,000
KnöchelVWT	16	1	1	1,00	0,000
ZwingerVWT	16	1	1	1,00	0,000
KapuzeVWT	16	0	1	,94	,250
PirschVWT	16	0	1	,94	,250
GehilfeVWT	16	1	1	1,00	0,000
UterusVWT	16	1	1	1,00	0,000
KrempelVWT	16	0	1	,94	,250
QualleVWT	16	1	1	1,00	0,000
AntilopeVWT	16	1	1	1,00	0,000
ExtruderVWT	16	0	1	,81	,403
PanadeVWT	16	0	1	,88	,342
SkarabäusVWT	16	0	1	,75	,447
StichlingVWT	16	0	1	,69	,479
BordüreVWT	16	0	1	,88	,342
KrageVWT	16	0	1	,75	,447
KalescheVWT	16	0	1	,50	,516
VertikoVWT	16	0	1	,75	,447
LebenVWT	17	1	1	1,00	0,000
ArbeitVWT	17	1	1	1,00	0,000
TeilVWT	17	1	1	1,00	0,000
WocheVWT	17	1	1	1,00	0,000
MinutenVWT	17	0	1	,88	,332
StelleVWT	17	1	1	1,00	0,000
GemeindeVWT	17	1	1	1,00	0,000
StürmerVWT	17	1	1	1,00	0,000
TatortVWT	17	0	1	,88	,332
AufsichtVWT	17	1	1	1,00	0,000
HubschrauberVWT	17	0	1	,94	,243
UntergangVWT	17	0	1	,88	,332
RöhreVWT	17	0	1	,82	,393
DachbodenVWT	17	0	1	,59	,507
TexturVWT	17	1	1	1,00	0,000
InsasseVWT	17	1	1	1,00	0,000
HerpesVWT	17	1	1	1,00	0,000
FüllhornVWT	17	0	1	,41	,507
DissidentVWT	17	0	1	,88	,332
ExitusVWT	17	1	1	1,00	0,000
WorthülseVWT	17	0	1	,71	,470
DamastVWT	17	0	1	,76	,437
ZichorieVWT	17	0	1	,53	,514

PegeVWT	17	1	1	1,00	0,000
MahonieVWT	17	0	1	,29	,470
WeltVWT	18	1	1	1,00	0,000
ArtVWT	18	1	1	1,00	0,000
RolleVWT	18	1	1	1,00	0,000
PunkteVWT	18	1	1	1,00	0,000
ErnteVWT	18	1	1	1,00	0,000
BehauptungVWT	18	1	1	1,00	0,000
LeitplankeVWT	18	1	1	1,00	0,000
SprosseVWT	18	1	1	1,00	0,000
GafferVWT	18	0	1	,67	,485
AporieVWT	18	0	1	,33	,485
WirrsalVWT	18	0	1	,50	,514
DiatonikVWT	18	0	1	,56	,511
EdaphonVWT	18	0	1	,50	,514
PalpeVWT	18	0	1	,56	,511
AngabenVWT	19	1	1	1,00	0,000
RahmenVWT	19	1	1	1,00	0,000
FebruarVWT	19	1	1	1,00	0,000
BuchVWT	19	0	1	,89	,315
ErdeVWT	19	0	1	,95	,229
MehrheitVWT	19	0	1	,79	,419
EnergieVWT	19	1	1	1,00	0,000
KommuneVWT	19	0	1	,95	,229
AnwesenheitVWT	19	0	1	,74	,452
NeuheitVWT	19	0	1	,79	,419
MaserungVWT	19	0	1	,89	,315
SpornVWT	19	0	1	,84	,375
EinsiedeleiVWT	19	0	1	,58	,507
OrgonVWT	19	0	1	,74	,452
GallertVWT	19	0	1	,74	,452
DepositumVWT	19	0	1	,68	,478
LuziditätVWT	19	0	1	,53	,513
ProfanierungVWT	19	0	1	,26	,452
KonfluenzVWT	19	0	1	,74	,452
FrauVWT	20	1	1	1,00	0,000
AnfangVWT	20	0	1	,85	,366
AusstellungVWT	20	0	1	,85	,366
LeidVWT	20	0	1	,95	,224
EinladungVWT	20	0	1	,90	,308
GalerieVWT	20	0	1	,90	,308
AbbauVWT	20	0	1	,65	,489

NichteVWT	20	1	1	1,00	0,000
MuschelVWT	20	0	1	,95	,224
TorheitVWT	20	0	1	,95	,224
ProjektilVWT	20	0	1	,95	,224
ReptilVWT	20	1	1	1,00	0,000
LaizismusVWT	20	0	1	,55	,510
EinbaumVWT	20	0	1	,40	,503
KanapeeVWT	20	0	1	,70	,470
SuadaVWT	20	0	1	,30	,470
DamnumVWT	20	0	1	,25	,444
BetiseVWT	20	0	1	,65	,489
EppichVWT	20	0	1	,35	,489
FrageVWT	21	1	1	1,00	0,000
MitteVWT	21	1	1	1,00	0,000
MittelstandVWT	21	0	1	,95	,218
FotografieVWT	21	0	1	,86	,359
GönnerVWT	21	0	1	,62	,498
KartellVWT	21	0	1	,95	,218
LarenVWT	21	0	1	,62	,498
SynkopeVWT	21	0	1	,67	,483
TamburinVWT	21	0	1	,90	,301
FaziesVWT	21	0	1	,86	,359
EleveVWT	21	0	1	,62	,498
ZagelVWT	21	0	1	,24	,436
RezessVWT	21	0	1	,71	,463
MilliardenVWT	22	1	1	1,00	0,000
InteresseVWT	22	1	1	1,00	0,000
FleischVWT	22	1	1	1,00	0,000
FlugVWT	22	0	1	,95	,213
KanzlerVWT	22	1	1	1,00	0,000
UmlandVWT	22	0	1	,95	,213
BlechVWT	22	0	1	,91	,294
DeliktVWT	22	1	1	1,00	0,000
GewölbeVWT	22	0	1	,91	,294
GedeihVWT	22	0	1	,82	,395
WohllebenVWT	22	0	1	,86	,351
AufputzVWT	22	0	1	,91	,294
PropfenVWT	22	0	1	,82	,395
DargVWT	22	0	1	,82	,395
PfetteVWT	22	0	1	,73	,456
InformationVWT	23	1	1	1,00	0,000
RegierungVWT	23	1	1	1,00	0,000

ZuschauerVWT	23	1	1	1,00	0,000
MitgliederVWT	23	0	1	,91	,288
NetzVWT	23	1	1	1,00	0,000
SignalVWT	23	0	1	,96	,209
GestrüppVWT	23	0	1	,91	,288
RaupeVWT	23	0	1	,96	,209
GehabeVWT	23	0	1	,83	,388
HammelVWT	23	0	1	,83	,388
PöbelVWT	23	0	1	,96	,209
AusbeuterVWT	23	1	1	1,00	0,000
GanoveVWT	23	0	1	,87	,344
TriptychonVWT	23	0	1	,61	,499
MehlbeereVWT	23	0	1	,48	,511
PentodeVWT	23	0	1	,30	,470
EstomihiVWT	23	0	1	,65	,487
EntscheidungVWT	24	0	1	,96	,204
MeterVWT	24	1	1	1,00	0,000
HaftbefehlVWT	24	1	1	1,00	0,000
KofferVWT	24	1	1	1,00	0,000
FreistoßVWT	24	0	1	,79	,415
FastenVWT	24	1	1	1,00	0,000
MatroseVWT	24	0	1	,92	,282
LaibVWT	24	0	1	,96	,204
DeterminationVWT	24	0	1	,83	,381
IndolenzVWT	24	0	1	,75	,442
AtonalitätVWT	24	0	1	,63	,495
GeldVWT	25	1	1	1,00	0,000
VeranstaltungVWT	25	0	1	,96	,200
KircheVWT	25	1	1	1,00	0,000
FingerVWT	25	1	1	1,00	0,000
UnterwäscheVWT	25	0	1	,80	,408
KnabeVWT	25	1	1	1,00	0,000
DistinktionVWT	25	0	1	,88	,332
NekrologVWT	25	0	1	,64	,490
ZukunftVWT	26	0	1	,54	,508
BundVWT	26	0	1	,96	,196
BeginnVWT	26	1	1	1,00	0,000
TypVWT	26	1	1	1,00	0,000
ParkettVWT	26	0	1	,96	,196
ImportVWT	26	1	1	1,00	0,000
UnruheVWT	26	0	1	,88	,326

BlüteVWT	26	1	1	1,00	0,000
NabelVWT	26	0	1	,96	,196
MitoseVWT	26	0	1	,88	,326
DiphthongVWT	26	0	1	,62	,496
EklipseVWT	26	0	1	,81	,402
EuroVWT	27	1	1	1,00	0,000
RaumVWT	27	0	1	,93	,267
EisenVWT	27	1	1	1,00	0,000
EinnahmeVWT	27	0	1	,93	,267
AnorakVWT	27	1	1	1,00	0,000
ÖdemVWT	27	0	1	,85	,362
BesegelungVWT	27	0	1	,70	,465
RackeVWT	27	0	1	,63	,492
OdorVWT	27	0	1	,63	,492
FallVWT	28	1	1	1,00	0,000
SystemVWT	28	1	1	1,00	0,000
VorstandVWT	28	0	1	,93	,262
KomponenteVWT	28	0	1	,79	,418
KoautorVWT	28	0	1	,86	,356
PostamentVWT	28	0	1	,75	,441
PomeranzeVWT	28	0	1	,79	,418
EierstichVWT	28	0	1	,57	,504
MimeseVWT	28	0	1	,93	,262
TagVWT	29	1	1	1,00	0,000
PlatzVWT	29	0	1	,93	,258
DrehbuchVWT	29	0	1	,93	,258
RegentinVWT	29	0	1	,90	,310
ButteVWT	29	0	1	,79	,412
EbolaVWT	29	1	1	1,00	0,000
DuplikatVWT	29	1	1	1,00	0,000
TartanVWT	29	0	1	,28	,455
RegestVWT	29	0	1	,76	,435
LaudationVWT	29	0	1	,76	,435
MillionenVWT	30	0	1	,97	,183
VergangenheitVWT	30	1	1	1,00	0,000
GeheimnisVWT	30	1	1	1,00	0,000
NagerVWT	30	0	1	,87	,346
GeheißVWT	30	0	1	,53	,507
BolusVWT	30	0	1	,63	,490
IguanaVWT	30	0	1	,73	,450
GequasselVWT	30	0	1	,80	,407
FaradVWT	30	0	1	,57	,504

MeteoritVWT	31	0	1	,87	,341
HornisseVWT	31	0	1	,74	,445
LanthanVWT	31	0	1	,26	,445
GranulatVWT	32	0	1	,97	,177
WürdigkeitVWT	32	0	1	,94	,246
HormonVWT	33	1	1	1,00	0,000
StadtVWT	34	1	1	1,00	0,000
WirbelVWT	34	0	1	,97	,171
OffenheitVWT	34	0	1	,94	,239
BauhofVWT	34	0	1	,71	,462
HybrisVWT	34	0	1	,74	,448
MannVWT	35	1	1	1,00	0,000
GrundVWT	35	1	1	1,00	0,000
AnmeldungVWT	35	0	1	,97	,169
ReligionVWT	35	0	1	,89	,323
FraßVWT	35	0	1	,83	,382
ProteolyseVWT	35	0	1	,77	,426
AnpfiffVWT	36	0	1	,97	,167
GesülzeVWT	36	0	1	,75	,439
ChronikerVWT	36	0	1	,81	,401
RechtVWT	37	0	1	,95	,229
WuchterVWT	38	0	1	,95	,226
KonvertitVWT	40	0	1	,78	,423
LesteVWT	42	0	1	,52	,505
GetöseVWT	46	0	1	,93	,250