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APPENDICES

Appendix 1. Research Instrument

RESEARCH INSTRUMENT

Name :
Class :
Reg. Number :

PRE-TEST

Subject : English
Class/Semester : VIII/I
Time Allotment : 45 minutes

A. Multiple Choice

Choose the correct answer by crossing (X) a, b, c, or d!

1. Ditta has many duties in the school
She is ... right now.
 - a. busy
 - b. lazy
 - c. smart
 - d. active
2. My sister publishes many novels this year
There are ten ... sellers.
 - a. good
 - b. best
 - c. cheap
 - d. expensive
3. Kiki has many friends, because she is ... to her friend.
 - a. bland
 - b. soft
 - c. liar
 - d. impatient
4. I want to surf the net, but the network is ... in this cafe.
 - a. fine
 - b. stable
 - c. unstable
 - d. fast
5. Rio stays alone in the class. His friends leave him. He is a... student.
 - a. rude
 - b. stingy
 - c. humble

- d. bland
6. There is a... in the classroom.
- police
 - teacher
 - doctor
 - butcher
7. ... must wear seat belts.
- Passenger
 - Driver
 - Rider
 - Stewardess
8. There are many ... in the class.
- teachers
 - headmasters
 - students
 - crews
9. There is a new ... in the centre of town.
- cafe
 - hospital
 - drugstore
 - post office
10. Anthony Sinisuka Ginting has a good skill in sport.
He is a ... player.
- badminton
 - tennis
 - baseball
 - swimming
11. The teacher is in the class.
She ... the students.
- works
 - teaches
 - sees
 - listens
12. All my friends have good score in the class.
They ... diligently at home.
- study
 - do
 - play
 - learn



13. My sister's hobby is cooking.
She ... cakes every other day.
- uses
 - paints
 - draws
 - makes
14. Adele will come to Indonesia.
She ... here at 5 p.m. by Garuda Indonesia.
- arrives
 - goes
 - visits
 - sings
15. Bagas is headache.
He plans to go to doctor.
The doctor ... him medicine to drink
- buys
 - takes
 - gives
 - puts

B. Complete the paragraph with appropriate words.

talk	places	motorcycle	home	enjoy
experiences	famous	buy	trip	happy

Going to Prambanan Temple

Today, my best friend and I go to Prambanan Temple. We go there by (1).... On the way, we have a small (2).... We talk about many (3)... one of it is holiday in Yogyakarta. We visit many tourism (4).... When we are in Prambanan Temple, we are so (5)... to see a beautiful and great temple. Prambanan Temple is (6)... with the story of Princess Roro Jongrang and Bandung Bondowoso. Bandung Bondowoso curses Princess Roro Jongrang to be the last statue in Prambanan Temple. In this place, we (7)... a lot of souvenirs for our family at (8) Then, we go back to our home. We really (9)... our (10)... to Prambanan Temple today.

Name :
Class :
Reg. Number :

POST-TEST

Subject : English
Class/Semester : VIII/I
Time Allotment : 45 minutes

A. Multiple Choice

Choose the correct answer by crossing (X) a, b, c, or d!

1. Rani gets the first student in the class.
She is a... student.
 - a. smart
 - b. arrogant
 - c. humble
 - d. kind
2. My sister buys me school things, and this dictionary is the most... from others.
 - a. big
 - b. large
 - c. expensive
 - d. cheapest
3. Lisa's father likes to do sports everyday.
His body is so...
 - a. big
 - b. thin
 - c. fat
 - d. healthy
4. Joni has many fruits. He likes to bring them to the class, but he is... to his friends.
 - a. humble
 - b. stingy
 - c. kind
 - d. patient

5. My mother is a career woman. She works in the office. She is a...
worker, but she loves her family.
- hard
 - slow
 - fast
 - quite
6. Many people do... every Sunday.
- cycling
 - driving
 - running
 - jogging
7. There are many children playing... in the field.
- badminton
 - baseball
 - boxing
 - basketball
8. ... sells medicine to cure a patient.
- The hospital
 - The drugstore
 - The market
 - The clinic
9. There are many... in the library.
- tables
 - bookcases
 - chairs
 - computers
10. Mr. Afif leads the flag ceremony in the school. He is a...
- secretary
 - staff
 - teacher
 - headmaster
11. The librarian... the book in the book case.
- tidies up
 - prepares
 - reads
 - brings



12. Some students go to the library in their free time, they usually... books there.
- tidy up
 - play
 - read
 - bring
13. Santi will visit her nephew, Roni. His home is in the village, then she cannot... his home.
- understand
 - know
 - go
 - find
14. My young sister has a beautiful hobby. She likes drawing. She... a fresh mountain.
- paints
 - writes
 - makes
 - collects
15. I have an ambition, I want to be an athlete. Every morning I... basketball to be a master player.
- run
 - play
 - walk
 - try

B. Complete the paragraph with appropriate words.

visit	help	gudeg	popular	guides
biggest	place	friendly	experiences	delicious

Yogyakarta

Yogyakarta is a very special city for its art, culture and culinary. It is a perfect 1)... to find the best batik as well as to watch puppet as well as gamelan concert. Ramayana Ballet is the most 2)... performance in Yogyakarta. The play based on an ancient Hindu love story, king Rama and princess Shinta.

There are many great places to visit in Yogyakarta. Some of them are Borobudur Temple, Prambanan Temple, Kaliburu National Park, Keraton Royal Palace, Alun-Alun Selatan Keraton, Malioboro Street, etc. Among all of them, temples become one of the 3)... reasons why people 4)... Yogyakarta.

Local people in Yogyakarta are so warm and 5)... They love to greet and wave hands to many tourists. When tourists get lost along the street, they 6)... to show a way happily. In some tourism objects, there are many local 7)... You need to deal with the price before having a guidance service.

Trying 8)... is a must when visiting Yogyakarta. Gudeg is an authentic Yogyakarta cuisine. It is very (9)... while enjoying this special city. Visiting Yogyakarta gives memorable (10)... for most tourists. Tourists always want to visit it again and again.

(Adapted from <https://belajar2.decorhomebestthe.me/2017/07/>)

Appendix 2. Lesson Plan

LESSON PLAN

School : SMP Negeri 1 Tellu Siattinge
 Grade/Semester : VIII/1
 Subject : English
 Theme : Our Busy Roads
 Aspect/ Skill : Vocabulary
 Meetings : 1 & 2
 Time Allotment : 2 x 40'

Standard Competence	3.6 Applying social functions, text structures, and linguistic elements of spoken and written transactional interaction texts that involve the act of giving and asking for information regarding the existence of people, objects, animals, according to the context of their use. (Note the linguistic element is/are).	4.6 Compose spoken and written transactional interaction texts that involve the act of giving and asking for information related to the existence of people, objects, animals by paying attention to social functions, text structures, and linguistic elements that are correct and in context.
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A. Learning Objectives

- ⌘ Students are able to answer vocabulary questions through the digital games “Jeopardy!”.
- ⌘ Students are able to match the words to their definition or corresponding pictures with digital games.

B. Learning Method

Digital games "Jeopardy!"

C. Learning Material

Vocabulary

No.	Vocabulary	Meaning
1	Accident	Kecelakaan
2	Ambulance	Ambulans
3	Bicycle/bike	Sepeda
4	Busy	Padat
5	Bus	Bus
6	Car	Mobil
7	Cart	Dokar
8	Crossroad	Perempatan jalan
9	Driver	Pengemudi
10	Fast	Cepat
11	Motorcycle	Sepeda motor
12	Pedestrian	Pejalan kaki
13	Pedicab	Becak
14	Pavement	Trotoar
15	People	Orang
16	Policewoman	Polisi Wanita
17	Policeman	Polisi
18	Pollution	Polusi
19	Rider	Pengendara
20	Safe	Aman
21	Slow	Lambat
22	T-junction	Pertigaan
23	Traffic sign	Rambu lalu lintas
24	Traffic light	Lampu lalu lintas
25	Traffic jam	Macet
26	Truck	Truk
27	Vehicle	Kendaraan

D. Learning Activity

Steps	Activity	Time Allotment
Opening	<ol style="list-style-type: none"> 1. Teacher gives greeting and checks the attendance list. 2. Teacher Motivates students to engage their learning motivation and knowledge about Our Busy Roads. 3. Teacher gives the objective of the lesson. 	10 Minutes
Main Activity	<p><u>Exploration</u></p> <ol style="list-style-type: none"> 1. Students are given learning material about Our Busy Roads. 2. Students are given the examples about There Is, There Are, and Many vs Much. 3. Students are given some vocabularies that support their understanding. <p><u>Elaboration</u></p> <ol style="list-style-type: none"> 1. Students identify the difficult words in the material of Our Busy Roads. 2. Students are guided to check some the meanings in dictionary. 3. Students have been introduced digital games. 4. Students are guided to use digital games. 5. Students are asked to memorize the words. 	60 Minutes

	<p><u>Confirmation</u></p> <ol style="list-style-type: none"> 1. Students discuss some vocabularies that they have learned. 2. Students are allowed to ask question related to the material. 	
Closing	<ol style="list-style-type: none"> 1. Students and teacher reflect on learning activities. 2. Students and teacher draw conclusions from the results of learning activities. 3. The teacher assigns students to continue finding information related to the material/lesson that is being or will be studied. 4. The teacher delivers the next learning material. 5. The teacher closes the learning activity by saying greetings and praying. 	10 Minutes

E. Source of Media

⌘ English book, laptop, internet, and LCD projector.

Makassar, September 2021

The Researcher



Yulia Udin Safitri

F022192009

LESSON PLAN

School : SMP Negeri 1 Tellu Siattinge
 Grade/Semester : VIII/1
 Subject : English
 Theme : Our Busy Roads
 Aspect/ Skill : Vocabulary
 Meetings : 3 & 4
 Time Allotment : 2 x 45'

Standard Competence	3.6 Applying social functions, text structures, and linguistic elements of spoken and written transactional interaction texts that involve the act of giving and asking for information regarding the existence of people, objects, animals, according to the context of their use. (Note the linguistic element is/are).	4.6 Compose spoken and written transactional interaction texts that involve the act of giving and asking for information related to the existence of people, objects, animals by paying attention to social functions, text structures, and linguistic elements that are correct and in context.
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A. Learning Objectives

- ⌘ Students are able to understand the meaning of each vocabulary in the Our Busy Roads (Adjective, Noun, and Verb).
- ⌘ Students are able to answer questions based on the Our Busy Roads properly.

B. Learning Method

Digital games "Kahoot!"

C. Learning Material

Vocabulary

No.	Vocabulary	Meaning
1	Accident	Kecelakaan
2	Afraid	Takut
3	Bank	Bank
4	Busy	Sibuk
5	Brave	Berani
6	Bridge	Jembatan
7	Care	Peduli
8	Cart	Dokar
9	Crowded	Ramai/sesak
10	Church	Gereja
11	Difficult	Sulit
12	Discipline	Kedisiplinan
13	Dry Season	Musim kemarau
14	Direction	Arah
15	Far	Jauh
16	Hard	Keras
17	Hospital	Rumah Sakit
18	Hotel	Hotel
19	Luxurious	Mewah
20	Market	Pasar
21	Mosque	Masjid
22	No entry	Dilarang masuk
23	No car entry	Mobil dilarang masuk
24	No truck	Truk dilarang masuk
25	No rotate	Dilarang berputar
26	No surpass	Dilarang mendahului
27	Sunken road	Jalan cekung

D. Learning Activity

Steps	Activity	Time Allotment
Opening	<ol style="list-style-type: none"> 1. Teacher and students pray together before the teaching and learning activities begin. 2. Teacher gives greeting and checks the attendance list. 3. Teacher Motivates students to engage their learning motivation and knowledge about Our Busy Roads. 4. The teacher describes the purpose of the topic to be studied. 	10 Minutes
Main Activity	<p><u>Exploration</u></p> <ol style="list-style-type: none"> 1. Students are given learning material about Our Busy Roads. 2. Students are given some vocabularies that support their understanding. <p><u>Elaboration</u></p> <ol style="list-style-type: none"> 1. Students identify the difficult words in the material of Our Busy Roads. 2. Students are guided to check the meanings in the dictionary. 3. Students are guided to use digital games. 	60 Minutes

	<p><u>Confirmation</u></p> <ol style="list-style-type: none"> 1. Students discuss some vocabularies that they have learned. 2. Students are allowed to ask question related to the material. 	
Closing	<ol style="list-style-type: none"> 1. Students and teacher reflect on learning activities. 2. Students and teacher draw conclusions from the results of learning activities. 3. The teacher assigns students to continue looking for information anywhere related to the material/lesson that is being or will be studied. 4. The teacher delivers the next learning material. 5. The teacher closes the learning activity by saying greetings and prayers. 	10 Minutes

E. Source of Media

⌘ English book, laptop, internet, and LCD projector.

Makassar, October 2021

The Researcher



Yulia Udin Safitri

F022192009

LESSON PLAN

School : SMP Negeri 1 Tellu Siattinge
 Grade/Semester : VIII/1
 Subject : English
 Theme : Our Busy Roads
 Aspect/ Skill : Vocabulary
 Meetings : 5 & 6
 Time Allotment : 2 x 45'

Standard Competence	3.6 Applying social functions, text structures, and linguistic elements of spoken and written transactional interaction texts that involve the act of giving and asking for information regarding the existence of people, objects, animals, according to the context of their use. (Note the linguistic element is/are).	4.6 Compose spoken and written transactional interaction texts that involve the act of giving and asking for information related to the existence of people, objects, animals by paying attention to social functions, text structures, and linguistic elements that are correct and in context.
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A. Learning Objectives

- ⌘ Students are able to understand the meaning of each vocabulary in the Our Busy Roads (Adjective, Noun, and Verb).
- ⌘ Students are able to answer questions based on the Our Busy Roads properly.

B. Learning Method

Digital games

C. Learning Material

Vocabulary

No.	Vocabulary	Meaning
1	Church	Gereja
2	Driving	Mengemudi
3	Cycling	Bersepeda
4	Horse	Kuda
5	House	Rumah
6	Mosque	Masjid
7	Passenger	Penumpang
8	People	Orang
9	Plane	Pesawat terbang
10	Pollution	Polusi
11	Rainy season	Musim hujan
12	Road	Jalan
13	Safe	Aman
14	School	Sekolah
15	Smoke	Asap
16	Steep slope	Turunan curam
17	Taxi	Taksi
18	Town	Kota
19	Train	Kereta
20	Transportation	Transportasi
21	Tree	Pohon
22	Temple	Candi
23	Violation	Pelanggaran
24	Walk	Berjalan
25	Water	Air
26	Wise	Bijaksana
27	Zoo	Kebun binatang

D. Learning Activity

Steps	Activity	Time Allotment
Opening	<ol style="list-style-type: none"> 1. Teacher and students pray together before the teaching and learning activities begin. 2. Teacher gives greeting and checks the attendance list. 3. Teacher motivates the student to engage their learning and knowledge about Our Busy Roads. 4. Teacher gives the objective of the lesson. 	10 Minutes
Main Activity	<p><u>Exploration</u></p> <ol style="list-style-type: none"> 1. Students are given learning material about Our Busy Roads. 2. Students are given the examples about Adjective, Noun, and Verb. 3. Students are given some vocabularies that support their understanding. 4. Students listen interactively the teacher gives some descriptions about objects. <p><u>Elaboration</u></p> <ol style="list-style-type: none"> 1. Students identify the difficult words in the material of Our Busy Roads. 2. Students are guided to use digital games. 3. Students are asked to memorize the words. 	60 Minutes

	<p><u>Confirmation</u></p> <ol style="list-style-type: none"> 1. Students discuss the vocabulary that they have learned. 2. Students are allowed to ask question related to the material. 3. The teacher provides reinforcement on material that students do not understand. 	
Closing	<ol style="list-style-type: none"> 1. Students and teacher reflect on learning activities. 2. Students and teacher draw conclusions from the results of learning activities. 3. Assign students to continue to look for information anywhere related to the material/lesson that is or will be studied. 4. The teacher presents the next learning material. 5. The teacher closes the learning activity by saying greetings and prayers. 	10 Minutes

E. Source of Media

⌘ English book, laptop, internet, and LCD projector.

Makassar, October 2021

The Researcher



Yulia Udin Safitri

F022192009

Appendix 3. The Students' Score of Pre-test and Post-test of Experimental Group

The Students' Score of Pre-test and Post-test of Experimental Group

NO.	STUDENT'S NAME	PRE-TEST SCORE	POST-TEST SCORE	Y_1	Y_1^2
1	AD	60	78	45.00	2025.00
2	AFM	64	76	33.33	1111.11
3	AV	68	78	31.25	976.56
4	ALD	64	82	50.00	2500.00
5	ARP	68	84	50.00	2500.00
6	AS	74	86	46.15	2130.18
7	AP	70	88	60.00	3600.00
8	AR	64	78	38.89	1512.35
9	AN	66	84	52.94	2802.77
10	AL	74	88	53.85	2899.41
11	CL	70	80	33.33	1111.11
12	CHP	72	90	64.29	4132.65
13	FZ	74	86	46.15	2130.18
14	IDP	60	84	60.00	3600.00
15	IM	64	82	50.00	2500.00
16	MAK	68	78	31.25	976.56
17	MGA	64	84	55.56	3086.42
18	MIS	70	86	53.33	2844.44
19	MSA	72	88	57.14	3265.31
20	MA	74	90	61.54	3786.98
21	MSR	60	76	40.00	1600.00
22	NZ	70	78	26.67	711.11
23	SM	64	80	44.44	1975.31
24	SSP	68	84	50.00	2500.00
25	TAC	80	96	80.00	6400.00
26	TF	60	88	70.00	4900.00
27	WNJ	64	84	55.56	3086.42
TOTAL		1826	2256	1340.67	70663.87

Percentage N-Gain Score
Experimental Group

NO.	STUDENT'S NAME	PRE-TEST SCORE	POST-TEST SCORE	N-Gain	% N-Gain
1	AD	60	78	0.45	45.00
2	AFM	64	76	0.33	33.33
3	AV	68	78	0.31	31.25
4	ALD	64	82	0.50	50.00
5	ARP	68	84	0.50	50.00
6	AS	74	86	0.46	46.15
7	AP	70	88	0.60	60.00
8	AR	64	78	0.39	38.89
9	AN	66	84	0.53	52.94
10	AL	74	88	0.54	53.85
11	CL	70	80	0.33	33.33
12	CHP	72	90	0.64	64.29
13	FZ	74	86	0.46	46.15
14	IDP	60	84	0.60	60.00
15	IM	64	82	0.50	50.00
16	MAK	68	78	0.31	31.25
17	MGA	64	84	0.56	55.56
18	MIS	70	86	0.53	53.33
19	MSA	72	88	0.57	57.14
20	MA	74	90	0.62	61.54
21	MSR	60	76	0.40	40.00
22	NZ	70	78	0.27	26.67
23	SM	64	80	0.44	44.44
24	SSP	68	84	0.50	50.00
25	TAC	80	96	0.80	80.00
26	TF	60	88	0.70	70.00
27	WNJ	64	84	0.56	55.56
TOTAL		1826	2256	13.41	1340.67

Appendix 4. The Students' Score of Pre-test and Post-test of Control Group

The Students' Score of Pre-test and Post-test of Control Group Score

NO.	STUDENT'S NAME	PRE-TEST SCORE	POST-TEST SCORE	Y ₂	Y ₂ ²
1	AI	60	74	35.00	1225.00
2	AM	62	78	42.11	1772.85
3	AK	68	72	12.50	156.25
4	ARU	64	74	27.78	771.60
5	AAB	62	66	10.53	110.80
6	AT	64	78	38.89	1512.35
7	CO	62	72	26.32	692.52
8	FJ	70	90	66.67	4444.44
9	FA	64	68	11.11	123.46
10	MQ	70	74	13.33	177.78
11	MI	60	72	30.00	900.00
12	MIL	64	74	27.78	771.60
13	MRA	66	70	11.76	138.41
14	MA	60	64	10.00	100.00
15	NA	64	68	11.11	123.46
16	NA	62	76	36.84	1357.34
17	NT	60	70	25.00	625.00
18	NR	68	76	25.00	625.00
19	NN	70	80	33.33	1111.11
20	NA	72	78	21.43	459.18
21	NT	74	80	23.08	532.54
22	RA	60	74	35.00	1225.00
23	RK	62	68	15.79	249.31
24	RA	60	64	10.00	100.00
25	SA	64	72	22.22	493.83
26	ZS	70	96	86.67	7511.11
27	MF	60	68	20.00	400.00
TOTAL		1742	1996	729.24	27709.95

Percentage N-Gain Score

Control Group

NO.	STUDENT'S NAME	PRE-TEST SCORE	POST-TEST SCORE	N-Gain	% N-Gain
1	AI	60	74	0.35	35.00
2	AM	62	78	0.42	42.11
3	AK	68	72	0.13	12.50
4	ARU	64	74	0.28	27.78
5	AAB	62	66	0.11	10.53
6	AT	64	78	0.39	38.89
7	CO	62	72	0.26	26.32
8	FJ	70	90	0.67	66.67
9	FA	64	68	0.11	11.11
10	MQ	70	74	0.13	13.33
11	MI	60	72	0.30	30.00
12	MIL	64	74	0.28	27.78
13	MRA	66	70	0.12	11.76
14	MA	60	64	0.10	10.00
15	NA	64	68	0.11	11.11
16	NA	62	76	0.37	36.84
17	NT	60	70	0.25	25.00
18	NR	68	76	0.25	25.00
19	NN	70	80	0.33	33.33
20	NA	72	78	0.21	21.43
21	NT	74	80	0.23	23.08
22	RA	60	74	0.35	35.00
23	RK	62	68	0.16	15.79
24	RA	60	64	0.10	10.00
25	SA	64	72	0.22	22.22
26	ZS	70	96	0.87	86.67
27	MF	60	68	0.20	20.00
TOTAL		1742	1996	7.29	729.24

Appendix 5. Normality of Test Experimental Group

Normality Test

Experimental Group

<i>X</i>	<i>F</i>	<i>Z</i>	<i>F(Z)</i>	<i>FK</i>	<i>S(Z)</i>	<i> F(Z) - S(Z) </i>
26.67	1	-1.83209	0.033469	1	0.037037	0.003568233
31.25	2	-1.46681	0.071214	3	0.111111	0.039897172
33.33	2	-1.30077	0.096668	5	0.185185	0.088516882
38.89	1	-0.858	0.195445	6	0.222222	0.026777153
40.00	1	-0.76945	0.220813	7	0.259259	0.038446362
44.44	1	-0.41524	0.338984	8	0.296296	0.042688017
45.00	1	-0.37096	0.355334	9	0.333333	0.022000344
46.15	2	-0.279	0.390122	11	0.407407	0.017285208
50.00	4	0.027531	0.510982	15	0.555556	0.044573746
52.94	1	0.261937	0.603315	16	0.592593	0.010722445
53.33	1	0.293191	0.615312	17	0.62963	0.0143176
53.85	1	0.334062	0.630834	18	0.666667	0.035833002
55.56	2	0.470298	0.680929	20	0.740741	0.059811699
57.14	1	0.596803	0.724681	21	0.777778	0.053097137
60.00	2	0.824512	0.795176	23	0.851852	0.056676119
61.54	1	0.947125	0.828212	24	0.888889	0.060676475
64.29	1	1.166076	0.878208	25	0.925926	0.047717827
70.00	1	1.621494	0.947544	26	0.962963	0.015418853
80.00	1	2.418475	0.992207	27	1	0.007792852
Lcount						0.088516882

Appendix 6. Normality Test of Control Group

Normality Test

Control Group

<i>X</i>	<i>F</i>	<i>Z</i>	<i>F(Z)</i>	<i>FK</i>	<i>S(Z)</i>	<i> F(Z) - S(Z) </i>
10.00	2	-0.96887	0.166306	2	0.074074	0.092231958
10.53	1	-0.93889	0.173894	3	0.111111	0.062783077
11.11	2	-0.90558	0.182579	5	0.185185	0.002605723
11.76	1	-0.86835	0.192601	6	0.222222	0.029621056
12.50	1	-0.82647	0.204269	7	0.259259	0.054990338
13.33	1	-0.779	0.217989	8	0.296296	0.078307598
15.79	1	-0.63911	0.261377	9	0.333333	0.071956213
20.00	1	-0.39928	0.344844	10	0.37037	0.025526869
21.43	1	-0.31791	0.375276	11	0.407407	0.032130963
22.22	1	-0.27271	0.39254	12	0.444444	0.051904515
23.08	1	-0.22402	0.41137	13	0.481481	0.070111622
25.00	2	-0.11449	0.454426	15	0.555556	0.101129604
26.32	1	-0.03954	0.484229	16	0.592593	0.108363166
27.78	2	0.043732	0.517441	18	0.666667	0.149225859
30.00	1	0.170306	0.567615	19	0.703704	0.136088353
33.33	1	0.360168	0.640639	20	0.740741	0.100101386
35.00	2	0.455099	0.675481	22	0.814815	0.139333715
36.84	1	0.560023	0.712268	23	0.851852	0.139583707
38.89	1	0.676605	0.750672	24	0.888889	0.138217188
42.11	1	0.859805	0.805052	25	0.925926	0.120874136
66.67	1	2.258789	0.988052	26	0.962963	0.02508877
86.67	1	3.397961	0.999661	27	1	0.000339451
Lcount						0.149225859

Using SPSS

One-Sample Kolmogorov-Smirnov Test

		Experiment	Control
N		27	27
Normal Parameters ^a	Mean	49.6544	27.0093
	Std. Deviation	12.54790	1.75576E1
Most Extreme Differences	Absolute	.104	.166
	Positive	.089	.149
	Negative	-.104	-.166
Kolmogorov-Smirnov Z		.538	.864
Asymp. Sig. (2-tailed)		.934	.444

a. Test distribution is Normal.

Appendix 7. Homogeneity Test

Homogeneity Test

No.	Experimental	Control	d_1	d_2	$(d_1 - \bar{d}_1)^2$	$(d_2 - \bar{d}_2)^2$
1	45.00	35.00	4.654562	7.991184	24.54962956	16.64671429
2	33.33	42.11	16.32123	15.09645	45.04971427	9.151984136
3	31.25	12.50	18.40456	14.50882	77.35627702	5.941863672
4	50.00	27.78	0.345438	0.768962	85.81950477	127.7410978
5	50.00	10.53	0.345438	16.4825	85.81950477	19.45937394
6	46.15	38.89	3.500716	11.88007	37.31504806	0.03653818
7	60.00	26.32	10.34544	0.693027	0.541870102	129.4633361
8	38.89	66.67	10.76567	39.65785	1.337151883	761.0220527
9	52.94	11.11	3.286615	15.89771	39.97660184	14.64196999
10	53.85	13.33	4.191592	13.67548	29.35177546	2.573651736
11	33.33	30.00	16.32123	2.991184	45.04971427	82.44709945
12	64.29	27.78	14.63115	0.768962	25.21880218	127.7410978
13	46.15	11.76	3.500716	15.24411	37.31504806	10.06721792
14	60.00	10.00	10.34544	17.00882	0.541870102	24.37983281
15	50.00	11.11	0.345438	15.89771	85.81950477	14.64196999
16	31.25	36.84	18.40456	9.833289	77.35627702	5.008345243
17	55.56	25.00	5.900994	2.008816	13.75168304	101.252018
18	53.33	25.00	3.678772	2.008816	35.17140433	101.252018
19	57.14	33.33	7.488295	6.324517	4.498745315	33.02462045
20	61.54	21.43	11.8839	5.580245	5.173713289	42.13279021
21	40.00	23.08	9.654562	3.931893	0.002046814	66.24868062
22	26.67	35.00	22.9879	7.991184	178.9862706	16.64671429
23	44.44	15.79	5.210117	11.21934	19.35298456	0.725699289
24	50.00	10.00	0.345438	17.00882	85.81950477	24.37983281
25	80.00	22.22	30.34544	4.786594	429.9866008	53.06581084
26	70.00	86.67	20.34544	59.65785	115.2642354	2264.487179
27	55.56	20.00	5.900994	7.008816	13.75168304	25.62795625
Mean	49.65	27.01	9.60932	12.07122		
$\sum(d_{ij} - \bar{d}_{ij})^2$					1600.177166	4079.807465
n_i	27	27				
N	54					
K	2					
\bar{d}	10.84027117					
$\bar{d}_i - \bar{d}$			-1.23095	1.230951		
$n_i(\bar{d}_i - \bar{d})^2$			40.9115	40.9115		

Using SPSS

Test of Homogeneity of Variances

Percentage n Gain Score

Levene Statistic	df1	df2	Sig.
.749	1	52	.391

Appendix 8. The Mean Score**The Mean Score****A. Experimental Group**

$$\bar{X}_1 = \frac{\sum X_1}{n_1} = \frac{1.340,67}{27} = 49,65$$

B. Control Group

$$\bar{X}_2 = \frac{\sum X_2}{n_2} = \frac{729,4}{27} = 27,01$$

Appendix 9. Variance and Standard Deviation

Variance and Standard Deviation

A. Variance Experimental Group

$$S_1^2 = \frac{\sum Y_1^2 - \frac{(\sum Y_1)^2}{n_1}}{n_1 - 1} = \frac{70.663,87 - \frac{(1.340,67)^2}{27}}{26} = \frac{70.663,87 - 66.570,22}{26} = 157,44$$

Standard Deviation Experimental Group

$$S_1 = \sqrt{\frac{\sum Y_1^2 - \frac{(\sum Y_1)^2}{n_1}}{n_1 - 1}} = \sqrt{157,44} = 12,55$$

B. Variance Control Group

$$S_2^2 = \frac{\sum Y_2^2 - \frac{(\sum Y_2)^2}{n_2}}{n_2 - 1} = \frac{27.709,95 - \frac{(729,24)^2}{27}}{26} = \frac{27.709,95 - 19.695,96}{26} = 308,23$$

Standard Deviation Control Group

$$S_1 = \sqrt{\frac{\sum Y_1^2 - \frac{(\sum Y_1)^2}{n_1}}{n_1 - 1}} = \sqrt{308,23} = 17,56$$

Appendix 10. T-test and T-table

1. T-test

$$\bar{X}_1 = 49,65$$

$$S_1 = 157,44$$

$$\bar{X}_2 = 27,01$$

$$S_2 = 308,23$$

The Significance Different

$$\begin{aligned}
 t &= \frac{\bar{X}_1 - \bar{X}_2}{\sqrt{\frac{(n_1 - 1)s_1^2 + (n_2 - 1)s_2^2}{n_1 + n_2 - 2} \left(\frac{1}{n_1} + \frac{1}{n_2}\right)}} \\
 &= \frac{49,65 - 27,01}{\sqrt{\frac{26 \cdot 157,44 + 26 \cdot 308,23}{52} \cdot \left(\frac{1}{27} + \frac{1}{27}\right)}} \\
 &= \frac{22,64}{\sqrt{\frac{4.093,44 + 8.013,98}{52} \cdot (0,037 + 0,037)}} \\
 &= \frac{22,64}{\sqrt{\frac{12.107,42 \cdot 0,074}{52}}} \\
 &= \frac{22,64}{\sqrt{17,7}} \\
 &= \frac{22,64}{4,15} \\
 &= 5,453
 \end{aligned}$$

2. T-table

For level of significance (D) = 0.05

Degree of freedom (df) = (N1 + N2) - 2 = (27 + 27) - 2 = 52

T-table = 2.007

Appendix 11. The Distribution of T-table

The Distribution of T-table

<i>Df</i>	<i>t</i> _{0.10}	<i>t</i> _{0.05}	<i>t</i> _{0.025}	<i>t</i> _{0.01}	<i>t</i> _{0.005}
1	3,078	6,314	12,706	31,821	63, 657
2	1,886	2,920	4,303	6,965	9,925
3	1,638	2,353	3,182	4,541	5,841
4	1,533	2,132	2,776	3,747	4,604
5	1,476	2,015	2,571	3,365	4,032
6	1,440	1,943	2,447	3,143	3,707
7	1,415	1,895	2,365	2,998	3,499
8	1,397	1,860	2,306	2,896	3,355
9	1,383	1,833	2,262	2,821	3,250
10	1,372	1,812	2,228	2,764	3,169
11	1,363	1,796	2,201	2,718	3,106
12	1,356	1,782	2,179	2,681	3,055
13	1,350	1,771	2,160	2,650	3,012
14	1,345	1,761	2,145	2,624	2,977
15	1,341	1,753	2,131	2,602	2,947
16	1,337	1,746	2,120	2,583	2,921
17	1,333	1,740	2,110	2,567	2,898
18	1,330	1,734	2,101	2,552	2,878
19	1,328	1,729	2,093	2,539	2,861
20	1,325	1,725	2,086	2,528	2,845
21	1,323	1,721	2,080	2,518	2,831
22	1,321	1,717	2,074	2,508	2,819
23	1,319	1,714	2,069	2,500	2,807
24	1,318	1,711	2,064	2,492	2,797
25	1,316	1,708	2,060	2,485	2,787
26	1,315	1,706	2,056	2,479	2,779
27	1,314	1,703	2,052	2,473	2,771
28	1,313	1,701	2,048	2,467	2,763
29	1,311	1,699	2,045	2,462	2,756
30	1,310	1,697	2,042	2,457	2,750
31	1,309	1,696	2,040	2,453	2,744
32	1,309	1,694	2,037	2,449	2,738
33	1,308	1,692	2,035	2,445	2,733
34	1,307	1,691	2,032	2,441	2,728
35	1,306	1,690	2,030	2,438	2,724
36	1,306	1,688	2,028	2,434	2,719
37	1,305	1,687	2,026	2,431	2,715
38	1,304	1,686	2,024	2,429	2,712
39	1,303	1,685	2,023	2,426	2,708
40	1,303	1,684	2,021	2,423	2,704
41	1,303	1,683	2,020	2,421	2,701
42	1,302	1,682	2,018	2,418	2,698
43	1,302	1,681	2,017	2,416	2,695
44	1,301	1,680	2,015	2,414	2,692
45	1,301	1,679	2,014	2,412	2,690
46	1,300	1,679	2,013	2,410	2,687
47	1,300	1,678	2,012	2,408	2,685
48	1,299	1,677	2,011	2,407	2,682
49	1,299	1,677	2,010	2,405	2,680
50	1,299	1,676	2,009	2,403	2,678
51	1,298	1,675	2,008	2,402	2,676
52	1,298	1,675	2,007	2,400	2,674

Appendix 12. Documentation

Documentation



