

APPENDIX A
SURVEY QUESTIONNAIRE

Indoor Thermal Comfort Of Primary School Classrooms In Lagos

Section 1A.

GENERAL INFORMATION

Date of site visit..... Time General weather condition

Name of school:.....

Address of School:

LGA:

Population of school:

No of pupils in selected classroom:.....

Section B1: Indoor Thermal Comfort Assessment.

Building description: in the boxes provided below sketch THE PLAN (show surveyed plan in hatch) AND ELEVATION of the SCHOOL BUILDING ENVELOPE.



PLAN & ELEVATION

CLASSROOM PLAN

Section (B2)

Physical characteristics of classroom envelope

	Groups	A	B	C	D	E
		Bungalow	First floor	Second floor	Third floor	others
Length						
Breadth						
Height						
Roof type						
Ceiling						
Roof material						
Landscaping						
Nos of windows						
Window type						
Window size						
Window thickness						
Window material						
Occupancy						
Floor Area						
Floor type						

Section (B3)

- i. Building orientation: N, S, E, W:.....
- ii. Building location (within its context), and external factors;.....
- iii. Landscaping (Densely/Mildly/ Not Available)

BUILDING ELEMENT	Block wall	Brick wall	Dry wall 1 (plasterboard)	Drywall 2 (aluminium)	Wood	PVC Walls
EXTERNAL WALL						
Plastered						
Unplastered						
Tiled						
Untiled						
Pvc strips						
Paint						
Varnish						
Others Specify						
INTERNAL WALLS						
Plastered						
Unplastered						
Tiled						
Untiled						
PVC strips						
Paint						
Varnish						
Others Specify						
FLOOR FINISHES	Wooden floor	Concrete floor	Metal floor			
Oversite concrete slab						
sandy						
Tiled						
granolithic						
Terrazzo						
Screeded						
Varnish						
Others specify						

CEILING	Suspended	Non suspended				
PVC boards						
Asbestos boards						
Wood panels						
No ceiling						
Mineral fibre						
Laminated strips						
POP						
Others specify						
WINDOWS	Louvres	Sliding	Projector/ Pivot			
Glazed						
Wooden						
Metal						
No window						
Others specify						

Section (B4);Please tick the following as appropriate.

SECTION 2

Thermal Performance Of Classroom Envelopes.

Using the software measuring tools (at seating levels), take measurements & fill in the following values.

Outdoor Air temperature (°C):.....

Indoor Air temperature (°C, (@ seating height).....

Humidity(%):

Mean radiant temperature(Indoor) (°C); 1hr.....°C

2hr.....°C

3hr.....°C

4hr.....°C

5hr.....°C

6hr.....°C

7hr.....°C

8hr.....°C

Air velocity (m/s):.....

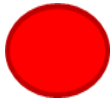
Ventilation type; NV(natural), MIXED MODE(both natural and mechanical)

Now many units? Specify if A.C or fans

SECTION 3.

Perception of the pupils to their indoor thermal comfort

How do you feel today?



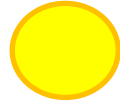
HOT



WARM



A BIT
WARM



OKAY



COOL



A BIT
COLD



COLD

Are you wearing a sweater?



YES



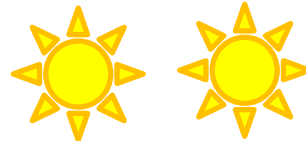
NO

In my classroom now,

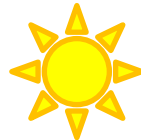
a. I wish it was a lot warmer



b. I wish It was a little warm



c. I wish It was just warm



d. I'm okay



e. I wish It was little cooler



f. I wish It was a little cold



g. I wish It was much colder



How do you feel now?

HAPPY



TIRED

Y A Y



SLEEPY

Z Zz



6) What were you doing in the last 30 minutes before the survey?



Class activity (reading, writing, maths, science, etc.)



PE (Physical education, games)



ICT (Computers)



Playing outside/ running during break



Relaxing during break



Having lunch

APPENDIX B

Calibration	INSTRUMENTS	APPS
Temperature °C	28	28
	28.2	27
Relative humidity	77.8	40%
	77.9	38
Air velocity		

APPENDIX C

Cooling Loads Simulation for Each Form Layout

Project Summary

Location and Weather	
Project	Project Name
Address	## Street City, State Zip
Calculation Time	Monday, October 24, 2016 3:48 PM
Report Type	Simple
Latitude	6.45°
Longitude	3.40°
Summer Dry Bulb	32 °C
Summer Wet Bulb	28 °C
Winter Dry Bulb	22 °C
Mean Daily Range	5 °C

Building Summary

Inputs	
Building Type	School or University
Area (m ²)	462
Volume (m ³)	1,126.74
Calculated Results	
Peak Cooling Total Load (W)	29,721
Peak Cooling Month and Hour	April 10:00 AM
Peak Cooling Sensible Load (W)	23,628
Peak Cooling Latent Load (W)	6,094
Maximum Cooling Capacity (W)	29,721
Peak Cooling Airflow (L/s)	1,773.6
Peak Heating Load (W)	-455
Peak Heating Airflow (L/s)	0.0
Checksums	
Cooling Load Density (W/m ²)	64.32
Cooling Flow Density (L/(s·m ²))	3.84
Cooling Flow / Load (L/(s·kW))	59.68
Cooling Area / Load (m ² /kW)	15.55
Heating Load Density (W/m ²)	-0.99
Heating Flow Density (L/(s·m ²))	0.00

FORM LAYOUT SIMULATION for Form 1, Form 2, Form 3, Form 4.

Project Summary

Location and Weather	
Project	Project Name
Address	## Street City, State Zip
Calculation Time	Monday, October 24, 2016 3:48 PM
Report Type	Simple
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Checksums	
Cooling Load Density (W/m ²)	64.32
Cooling Flow Density (L/(s·m ²))	3.84
Cooling Flow / Load (L/(s·kW))	59.68
Cooling Area / Load (m ² /kW)	15.55
Heating Load Density (W/m ²)	-0.99
Heating Flow Density (L/(s·m ²))	0.00

FORM 1- Linear Shaped Layout

Zone Summary - 1

Inputs	
Area (m ²)	116
Volume (m ³)	281.68
Cooling Setpoint	23 °C
Heating Setpoint	21 °C
Supply Air Temperature	12 °C
Air Volume Calculation Type	Split System(s) with Natural Ventilation
Relative Humidity	46.00% (Calculated)
Psychrometric Message	None
Calculated Results	
Peak Cooling Load (W)	7,487
Peak Cooling Month and Hour	April 10:00 AM
Peak Cooling Sensible Load (W)	5,963
Peak Cooling Latent Load (W)	1,523
Peak Cooling Airflow (L/s)	447.5
Peak Heating Load (W)	-111
Peak Heating Airflow (L/s)	0.0
Checksums	
Cooling Load Density (W/m ²)	64.81
Cooling Flow Density (L/(s·m ²))	3.87
Cooling Flow / Load (L/(s·kW))	59.78
Cooling Area / Load (m ² /kW)	15.43
Heating Load Density (W/m ²)	-0.96
Heating Flow Density (L/(s·m ²))	0.00

1 Spaces

Space Name	Area (m ²)	Volume (m ³)	Peak Cooling Load (W)	Cooling Airflow (L/s)	Peak Heating Load (W)	Heating Airflow (L/s)
3 Space	14	35.21	980	60.0	-18	0.0
5 Space	14	35.21	895	54.8	-12	0.0
6 Space	14	35.21	895	54.8	-12	0.0
7 Space	14	35.21	895	54.8	-12	0.0
8 Space	14	35.21	895	54.8	-12	0.0
9 Space	14	35.21	895	54.8	-12	0.0
10 Space	14	35.21	895	54.8	-12	0.0
11 Space	14	35.21	963	58.9	-18	0.0

FORM 2- Rectangular Shaped Layout

Zone Summary - 2

Inputs	
Area (m ²)	116
Volume (m ³)	281.68
Cooling Setpoint	23 °C
Heating Setpoint	21 °C
Supply Air Temperature	12 °C
Air Volume Calculation Type	Split System(s) with Natural Ventilation
Relative Humidity	46.00% (Calculated)
Psychrometric Message	None
Calculated Results	
Peak Cooling Load (W)	7,645
Peak Cooling Month and Hour	April 10:00 AM
Peak Cooling Sensible Load (W)	6,121
Peak Cooling Latent Load (W)	1,523
Peak Cooling Airflow (L/s)	459.4
Peak Heating Load (W)	-123
Peak Heating Airflow (L/s)	0.0
Checksums	
Cooling Load Density (W/m ²)	66.18
Cooling Flow Density (L/(s·m ²))	3.98
Cooling Flow / Load (L/(s·kW))	60.09
Cooling Area / Load (m ² /kW)	15.11
Heating Load Density (W/m ²)	-1.06
Heating Flow Density (L/(s·m ²))	0.00

2 Spaces

Space Name	Area (m ²)	Volume (m ³)	Peak Cooling Load (W)	Cooling Airflow (L/s)	Peak Heating Load (W)	Heating Airflow (L/s)
12 Space	14	35.21	980	60.3	-18	0.0
13 Space	14	35.21	895	55.1	-12	0.0
14 Space	14	35.21	895	55.1	-12	0.0
15 Space	14	35.21	963	59.2	-18	0.0
16 Space	14	35.21	980	60.3	-18	0.0
17 Space	14	35.21	895	55.1	-12	0.0
18 Space	14	35.21	895	55.1	-12	0.0
19 Space	14	35.21	963	59.2	-18	0.0

Form 3 – ‘L’ shaped Layout

Zone Summary - 3

Inputs	
Area (m ²)	116
Volume (m ³)	281.68
Cooling Setpoint	23 °C
Heating Setpoint	21 °C
Supply Air Temperature	12 °C
Air Volume Calculation Type	Split System(s) with Natural Ventilation
Relative Humidity	46.00% (Calculated)
Psychrometric Message	None
Calculated Results	
Peak Cooling Load (W)	7,295
Peak Cooling Month and Hour	April 10:00 AM
Peak Cooling Sensible Load (W)	5,772
Peak Cooling Latent Load (W)	1,523
Peak Cooling Airflow (L/s)	433.1
Peak Heating Load (W)	-111
Peak Heating Airflow (L/s)	0.0
Checksums	
Cooling Load Density (W/m ²)	63.15
Cooling Flow Density (L/(s·m ²))	3.75
Cooling Flow / Load (L/(s·kW))	59.37
Cooling Area / Load (m ² /kW)	15.84
Heating Load Density (W/m ²)	-0.96
Heating Flow Density (L/(s·m ²))	0.00

3 Spaces

Space Name	Area (m ²)	Volume (m ³)	Peak Cooling Load (W)	Cooling Airflow (L/s)	Peak Heating Load (W)	Heating Airflow (L/s)
20 Space	14	35.21	980	59.6	-18	0.0
21 Space	14	35.21	895	54.4	-12	0.0
22 Space	14	35.21	895	54.4	-12	0.0
23 Space	14	35.21	895	54.4	-12	0.0
24 Space	14	35.21	861	52.4	-12	0.0
25 Space	14	35.21	833	50.6	-12	0.0
26 Space	14	35.21	833	50.6	-12	0.0
27 Space	14	35.21	934	56.8	-18	0.0

Form 4 – ‘U’ shaped layout

Zone Summary - 4

Inputs	
Area (m ²)	116
Volume (m ³)	281.68
Cooling Setpoint	23 °C
Heating Setpoint	21 °C
Supply Air Temperature	12 °C
Air Volume Calculation Type	Split System(s) with Natural Ventilation
Relative Humidity	46.00% (Calculated)
Psychrometric Message	None
Calculated Results	
Peak Cooling Load (W)	7,295
Peak Cooling Month and Hour	April 10:00 AM
Peak Cooling Sensible Load (W)	5,772
Peak Cooling Latent Load (W)	1,523
Peak Cooling Airflow (L/s)	433.1
Peak Heating Load (W)	-111
Peak Heating Airflow (L/s)	0.0
Checksums	
Cooling Load Density (W/m ²)	63.15
Cooling Flow Density (L/(s·m ²))	3.75
Cooling Flow / Load (L/(s·kW))	59.37
Cooling Area / Load (m ² /kW)	15.84
Heating Load Density (W/m ²)	-0.96
Heating Flow Density (L/(s·m ²))	0.00

4 Spaces

Space Name	Area (m ²)	Volume (m ³)	Peak Cooling Load (W)	Cooling Airflow (L/s)	Peak Heating Load (W)	Heating Airflow (L/s)
28 Space	14	35.21	980	59.6	-18	0.0
29 Space	14	35.21	895	54.4	-12	0.0
30 Space	14	35.21	861	52.4	-12	0.0
31 Space	14	35.21	833	50.6	-12	0.0
32 Space	14	35.21	833	50.6	-12	0.0
33 Space	14	35.21	849	51.6	-12	0.0
34 Space	14	35.21	895	54.4	-12	0.0
35 Space	14	35.21	980	59.6	-18	0.0

APPENDIX D

Amuwo Odofin Public primary school, District IV (Sabo, Yaba)



Front of the school



Inside a classroom



Anthony Model Nursery and Primary School, District II- Ikeja



Front of the school



A classroom



ANYANGBUREN Public and Primary School, Ikorodu.



A classroom



One wing of classroom block



Front of the school



The school compound

Hope School, Mekunwen, Ikoyi (District III- Ikoyi)



Front of the school



Inside a classroom



A typical classroom block

Idi Odo Public Primary School, Gbagada



Front of the school



Classroom block

Ilupeju, Public Primary School. (District VI-Oshodi)



Front of the school



Interior of A classroom



A typical Classroom block in Ilupeju Public Primary School

APPENDIX E STATISTICAL (SPSS) RESULTS

Frequency Table

How do you feel today(i)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Cold	12	6.6	6.6	6.6
A bit Cold	13	7.1	7.1	13.7
Cool	22	12.1	12.1	25.8
Okay	56	30.8	30.8	56.6
A bit Warm	15	8.2	8.2	64.8
Warm	41	22.5	22.5	87.4
Hot	23	12.6	12.6	100.0
Total	182	100.0	100.0	

Are you wearing a Sweater (ii)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	11	6.0	6.0	6.0
No	171	94.0	94.0	100.0
Total	182	100.0	100.0	

In my Classroom now (iii)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid I wish it was a lot warmer	4	2.2	2.2	2.2
I wish it was a little warm	12	6.6	6.6	8.8
I wish it was just warm	19	10.4	10.4	19.2
I'm Okay	52	28.6	28.6	47.8
I wish it was little cooler	65	35.7	35.7	83.5

I wish it was a little cold	20	11.0	11.0	94.5
I wish it was much colder	10	5.5	5.5	100.0
Total	182	100.0	100.0	

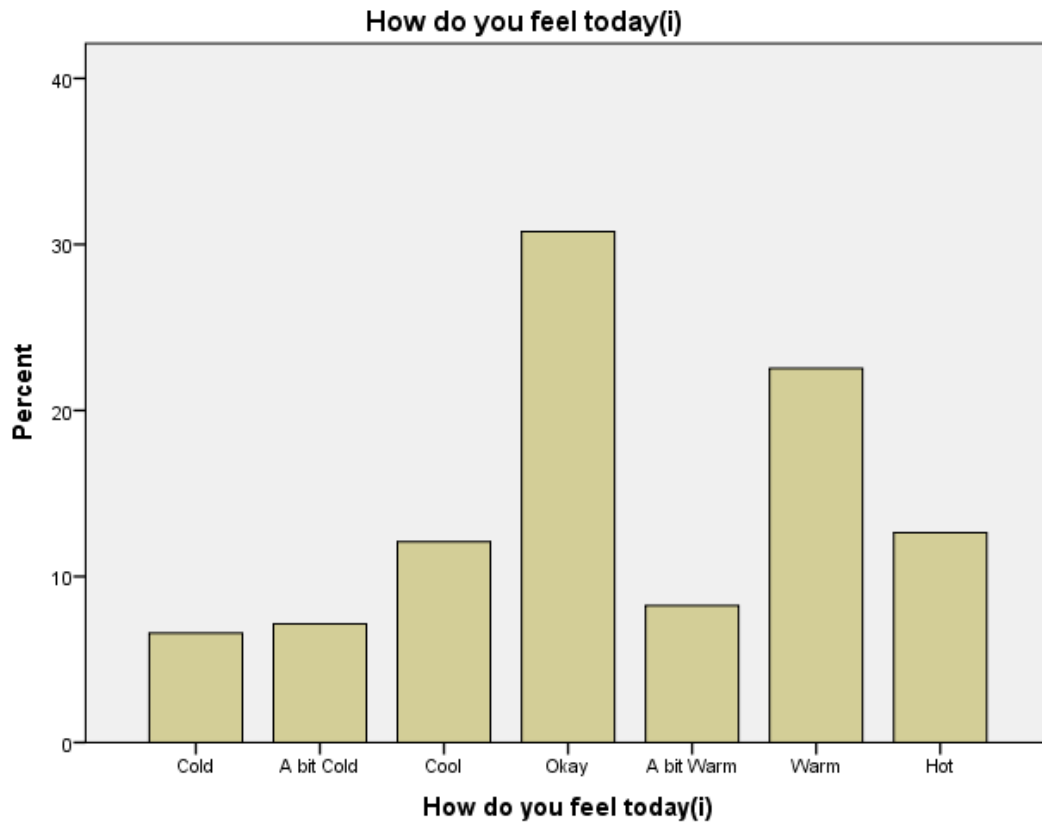
How do you feel now (iv)

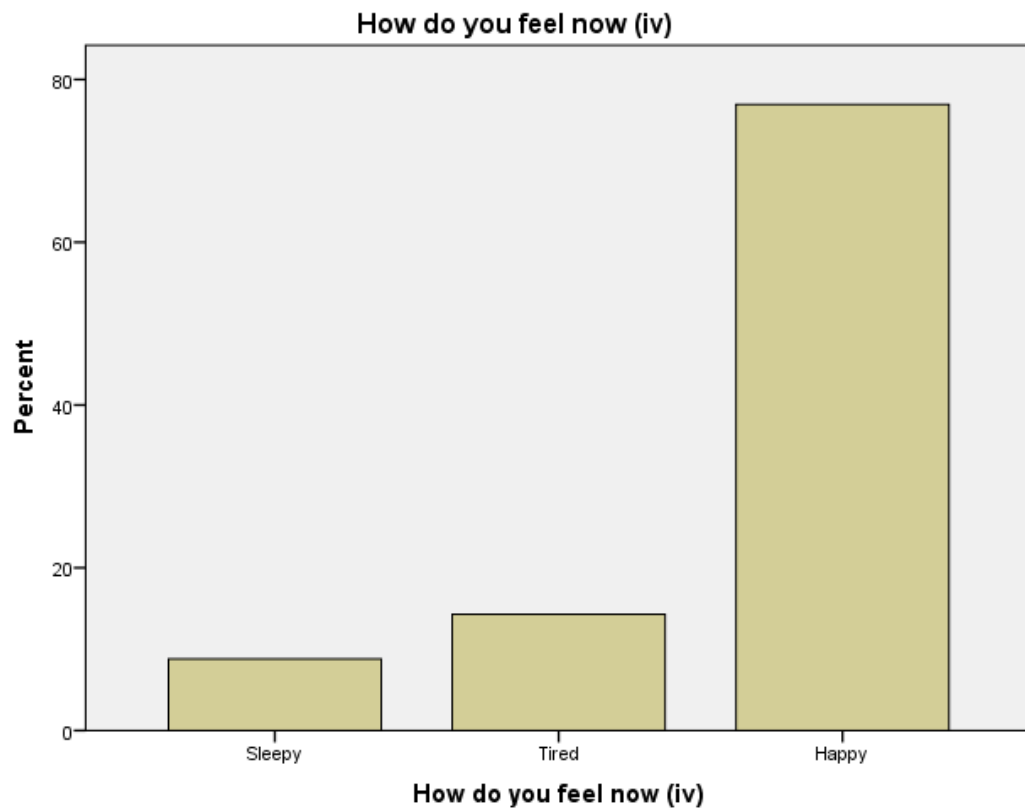
	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Sleepy	16	8.8	8.8	8.8
Tired	26	14.3	14.3	23.1
Happy	140	76.9	76.9	100.0
Total	182	100.0	100.0	

What were you doing 30 mins ago

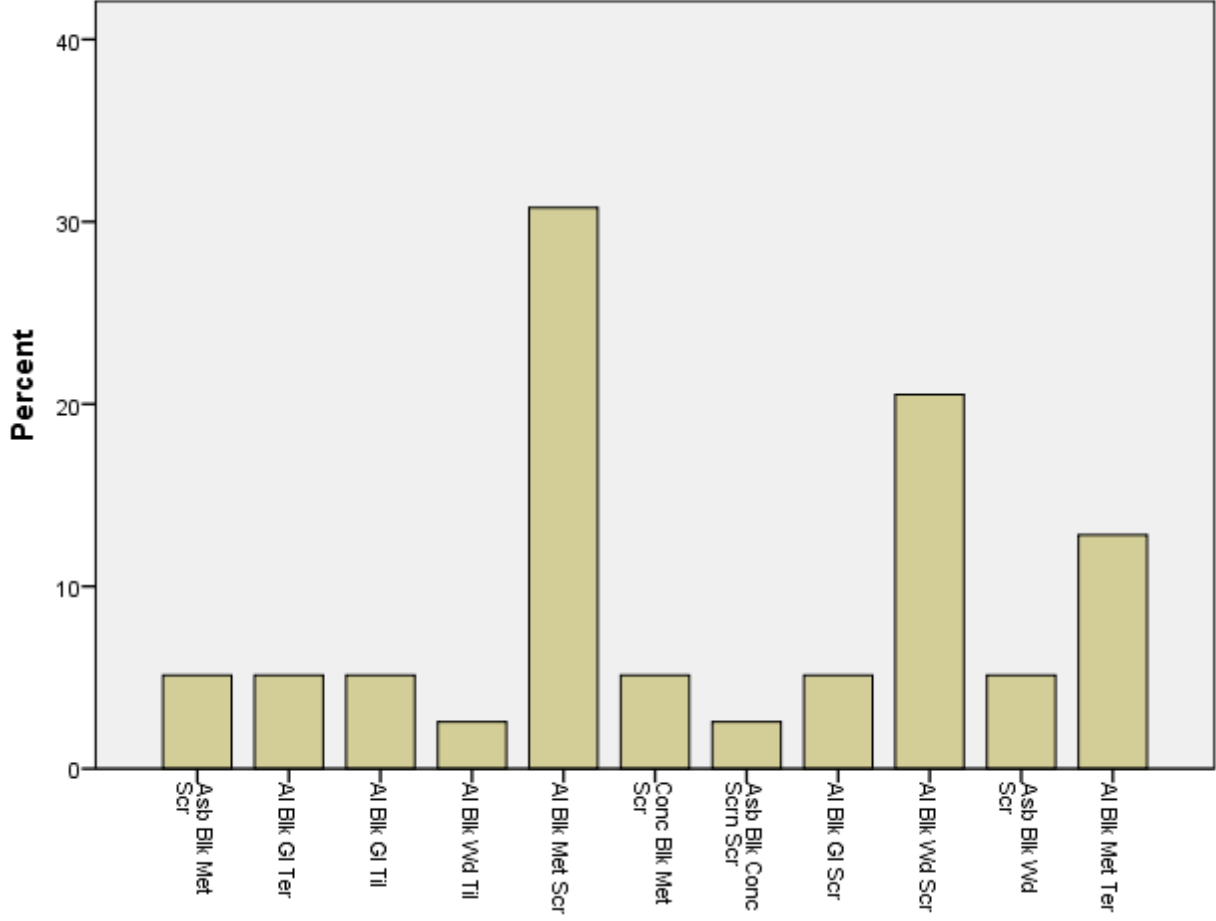
	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Sedentary Task	119	65.4	65.4	65.4
Physical Education	10	5.5	5.5	70.9
Playing Outside	27	14.8	14.8	85.7
Relaxing during break	21	11.5	11.5	97.3
Having lunch	5	2.7	2.7	100.0
Total	182	100.0	100.0	

Bar Chart

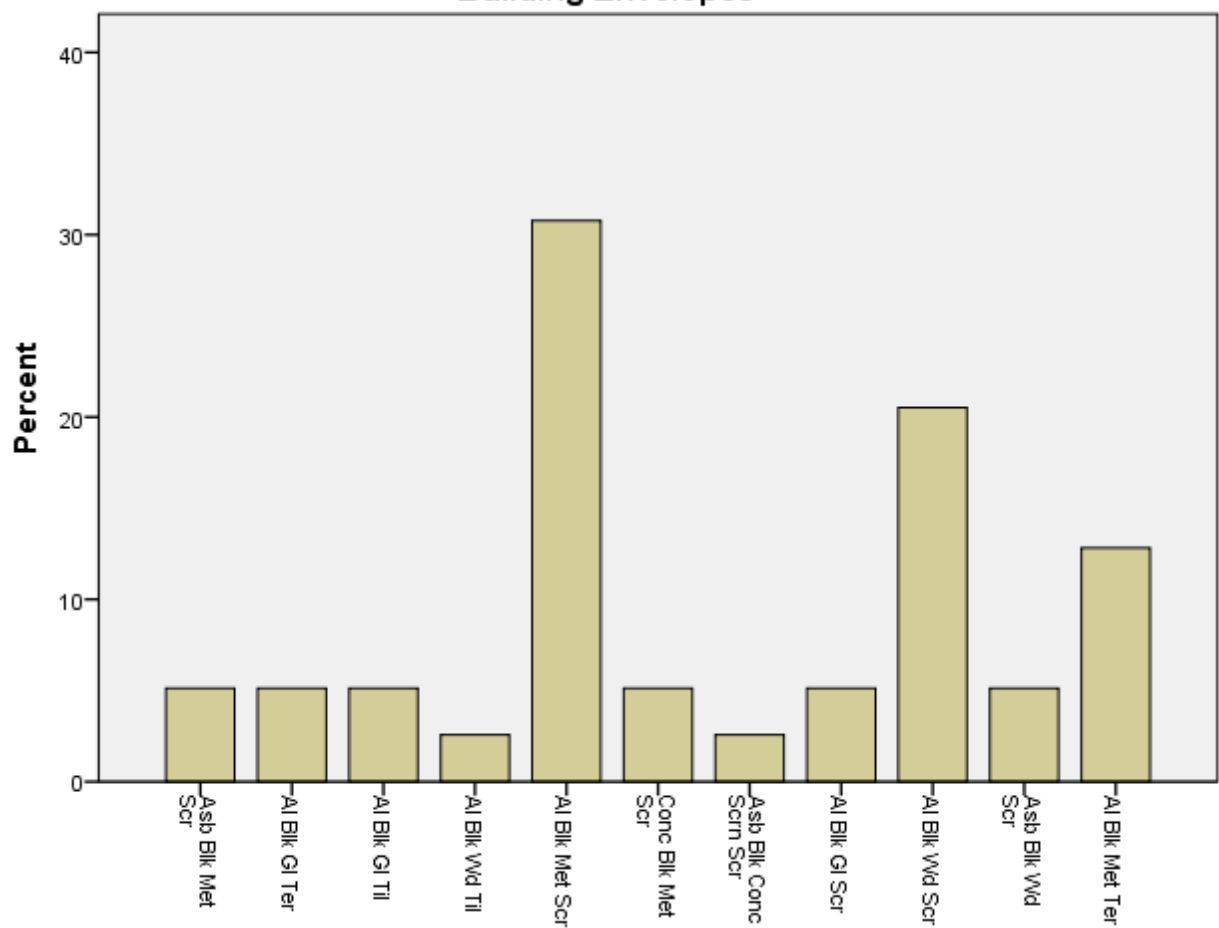




Building Envelopes



Building Envelopes



Oneway

[DataSet1] C:\Users\Mr Ikegwu\Desktop\Desktop\Consults\Oginni Yemi PhD\Oginni Yemi PhD.sav

Descriptives

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
Air temperature (0C) < 20 m	6	30.7667	1.75803	.71771	28.9217	32.6116	29.30	33.00
20 - 29.9 m	14	31.0714	3.46886	.92709	29.0686	33.0743	25.00	35.00
30 - 39.9 m	6	27.3333	3.61478	1.47573	23.5398	31.1268	23.00	31.00
40 - 49.9 m	20	27.9680	4.51743	1.01013	25.8538	30.0822	20.60	34.30
50 - 59.9 m	12	27.4117	4.35581	1.25741	24.6441	30.1792	19.67	32.00
Total	58	28.8259	4.14419	.54416	27.7362	29.9155	19.67	35.00
Humidity (%) < 20 m	6	59.5000	15.91251	6.49626	42.8008	76.1992	48.10	80.00
20 - 29.9 m	14	61.9286	15.96252	4.26616	52.7121	71.1451	37.00	86.00
30 - 39.9 m	6	48.9667	14.99342	6.12104	33.2320	64.7013	36.40	68.00
40 - 49.9 m	20	50.4250	12.12091	2.71032	44.7522	56.0978	31.70	66.00
50 - 59.9 m	10	70.9000	20.59234	6.51187	56.1691	85.6309	36.50	94.00
Total	56	57.7732	16.96965	2.26767	53.2287	62.3177	31.70	94.00
Mean radiant temperature ((0C) < 20 m	4	33.5750	.49075	.24537	32.7941	34.3559	33.15	34.00
20 - 29.9 m	10	33.5940	5.92671	1.87419	29.3543	37.8337	27.47	43.00
30 - 39.9 m	6	25.9467	2.27974	.93070	23.5542	28.3391	23.04	27.80
40 - 49.9 m	16	28.9625	3.54596	.88649	27.0730	30.8520	21.50	34.00
50 - 59.9 m	8	25.8675	3.82618	1.35276	22.6687	29.0663	19.67	28.00
Total	44	29.4605	4.95052	.74632	27.9554	30.9656	19.67	43.00
Air Velocity (m/s) < 20 m	6	17.7080	22.37251	9.13354	-5.7705	41.1865	1.60	46.52

20 - 29.9 m	14	62.8900	123.51117	33.00975	-8.4232	134.2032	2.00	351.53
30 - 39.9 m	4	3.3000	1.96299	.98150	.1764	6.4236	1.60	5.00
40 - 49.9 m	14	7.9314	8.88432	2.37443	2.8018	13.0611	3.56	28.80
50 - 59.9 m	10	2.9040	.94426	.29860	2.2285	3.5795	2.10	4.00
Total	48	23.7498	70.41687	10.16380	3.3028	44.1967	1.60	351.53

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Air temperature (OC)	Between Groups	145.280	4	36.320	2.309	.070
	Within Groups	833.656	53	15.729		
	Total	978.936	57			
Humidity (%)	Between Groups	3528.010	4	882.003	3.654	.011
	Within Groups	12310.294	51	241.378		
	Total	15838.305	55			
Mean radiant temperature ((OC)	Between Groups	419.902	4	104.976	6.458	.000
	Within Groups	633.927	39	16.255		
	Total	1053.829	43			
Air Velocity (m/s)	Between Groups	31187.737	4	7796.934	1.661	.177
	Within Groups	201863.467	43	4694.499		
	Total	233051.204	47			

Post Hoc Tests

Multiple Comparisons

LSD

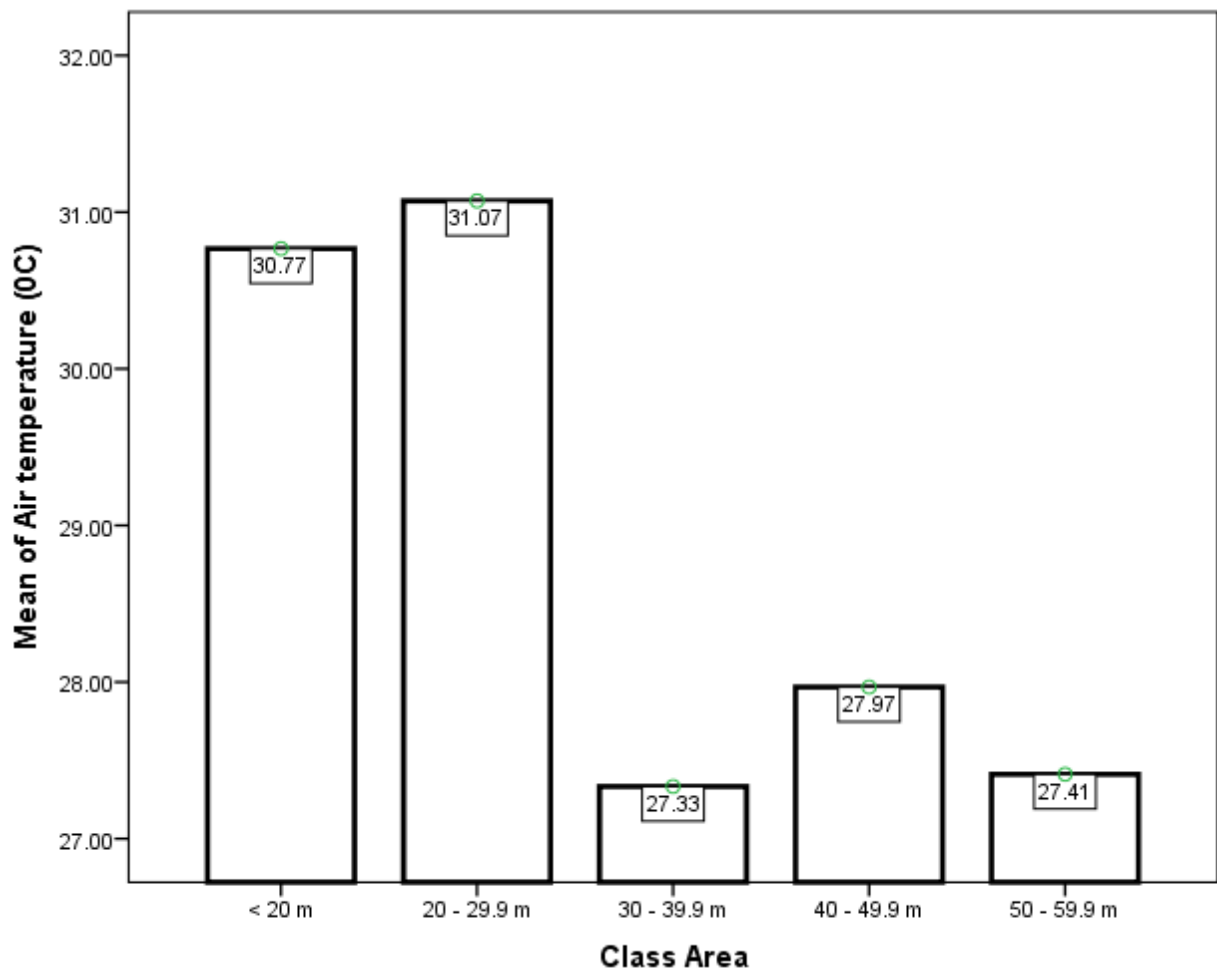
Dependent Variable	(I) Class Area	(J) Class Area	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
Air temperature (OC)	< 20 m	20 - 29.9 m	-.30476	1.93522	.875	-4.1863	3.5768
		30 - 39.9 m	3.43333	2.28979	.140	-1.1594	8.0261
		40 - 49.9 m	2.79867	1.84608	.135	-.9041	6.5014
		50 - 59.9 m	3.35500	1.98301	.097	-.6224	7.3324

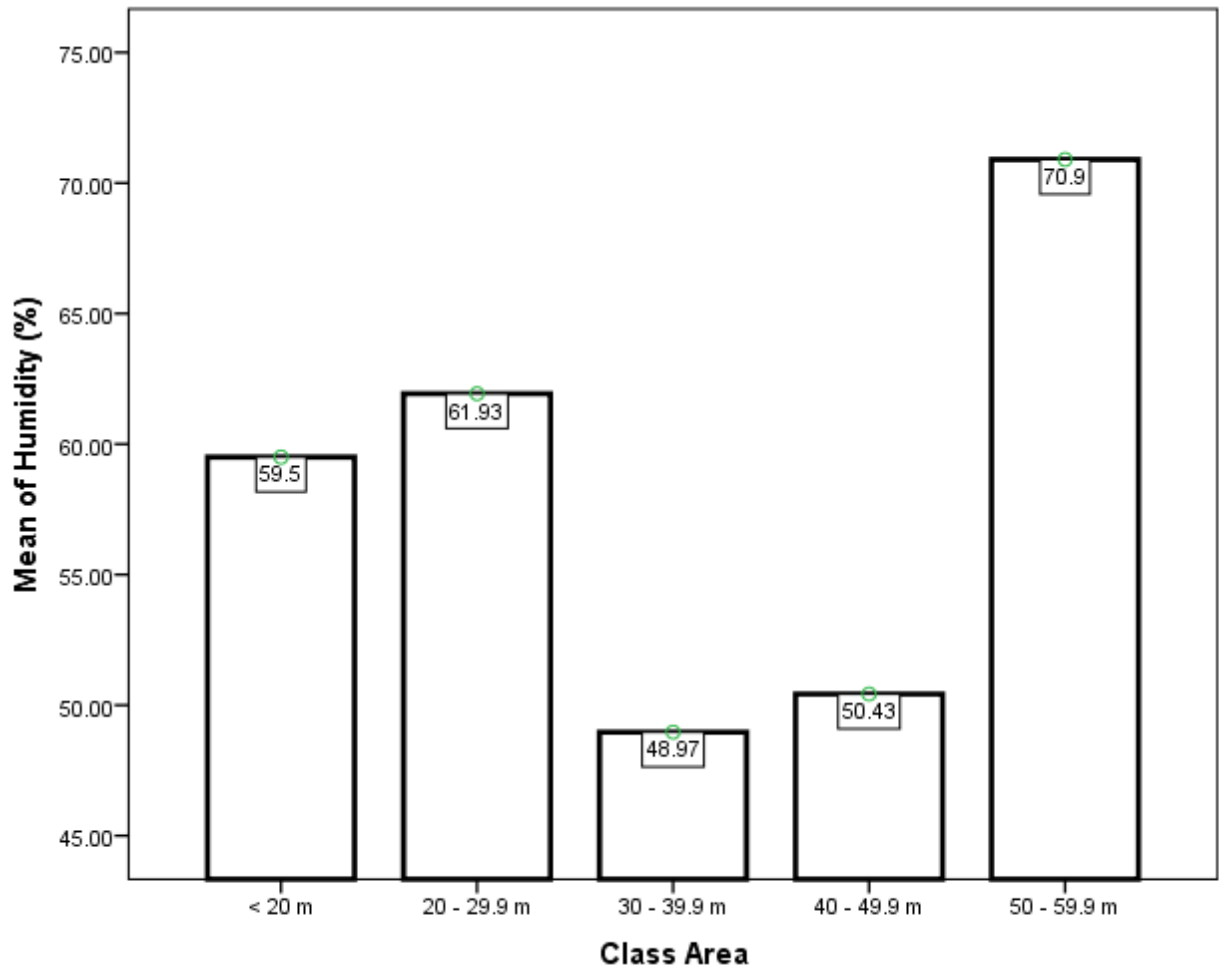
20 - 29.9 m	< 20 m	.30476	1.93522	.875	-3.5768	4.1863
	30 - 39.9 m	3.73810	1.93522	.059	-.1435	7.6197
	40 - 49.9 m	3.10343 ⁺	1.38202	.029	.3314	5.8754
	50 - 59.9 m	3.65976 ⁺	1.56023	.023	.5303	6.7892
30 - 39.9 m	< 20 m	-3.43333	2.28979	.140	-8.0261	1.1594
	20 - 29.9 m	-3.73810	1.93522	.059	-7.6197	.1435
	40 - 49.9 m	-.63467	1.84608	.732	-4.3374	3.0681
	50 - 59.9 m	-.07833	1.98301	.969	-4.0558	3.8991
40 - 49.9 m	< 20 m	-2.79867	1.84608	.135	-6.5014	.9041
	20 - 29.9 m	-3.10343 ⁺	1.38202	.029	-5.8754	-.3314
	30 - 39.9 m	.63467	1.84608	.732	-3.0681	4.3374
	50 - 59.9 m	.55633	1.44819	.702	-2.3484	3.4610
50 - 59.9 m	< 20 m	-3.35500	1.98301	.097	-7.3324	.6224
	20 - 29.9 m	-3.65976 ⁺	1.56023	.023	-6.7892	-.5303
	30 - 39.9 m	.07833	1.98301	.969	-3.8991	4.0558
	40 - 49.9 m	-.55633	1.44819	.702	-3.4610	2.3484
Humidity (%)	< 20 m					
	20 - 29.9 m	-2.42857	7.58096	.750	-17.6480	12.7909
	30 - 39.9 m	10.53333	8.96992	.246	-7.4745	28.5412
	40 - 49.9 m	9.07500	7.23178	.215	-5.4434	23.5934
	50 - 59.9 m	-11.40000	8.02294	.161	-27.5067	4.7067
20 - 29.9 m	< 20 m	2.42857	7.58096	.750	-12.7909	17.6480
	30 - 39.9 m	12.96190	7.58096	.093	-2.2575	28.1813
	40 - 49.9 m	11.50357 ⁺	5.41389	.038	.6347	22.3724
	50 - 59.9 m	-8.97143	6.43266	.169	-21.8855	3.9427
30 - 39.9 m	< 20 m	-10.53333	8.96992	.246	-28.5412	7.4745
	20 - 29.9 m	-12.96190	7.58096	.093	-28.1813	2.2575
	40 - 49.9 m	-1.45833	7.23178	.841	-15.9767	13.0601
	50 - 59.9 m	-21.93333 ⁺	8.02294	.009	-38.0401	-5.8266
40 - 49.9 m	< 20 m	-9.07500	7.23178	.215	-23.5934	5.4434
	20 - 29.9 m	-11.50357 ⁺	5.41389	.038	-22.3724	-.6347
	30 - 39.9 m	1.45833	7.23178	.841	-13.0601	15.9767
	50 - 59.9 m	-20.47500 ⁺	6.01720	.001	-32.5550	-8.3950
50 - 59.9 m	< 20 m	11.40000	8.02294	.161	-4.7067	27.5067
	20 - 29.9 m	8.97143	6.43266	.169	-3.9427	21.8855
	30 - 39.9 m	21.93333 ⁺	8.02294	.009	5.8266	38.0401
	40 - 49.9 m	20.47500 ⁺	6.01720	.001	8.3950	32.5550
Mean radiant temperature ((OC)	< 20 m					
	20 - 29.9 m	-.01900	2.38518	.994	-4.8435	4.8055
	30 - 39.9 m	7.62833 ⁺	2.60245	.006	2.3644	12.8923
	40 - 49.9 m	4.61250 ⁺	2.25378	.047	.0538	9.1712
	50 - 59.9 m	7.70750 ⁺	2.46890	.003	2.7137	12.7013
20 - 29.9 m	< 20 m	.01900	2.38518	.994	-4.8055	4.8435
	30 - 39.9 m	7.64733 ⁺	2.08196	.001	3.4362	11.8585

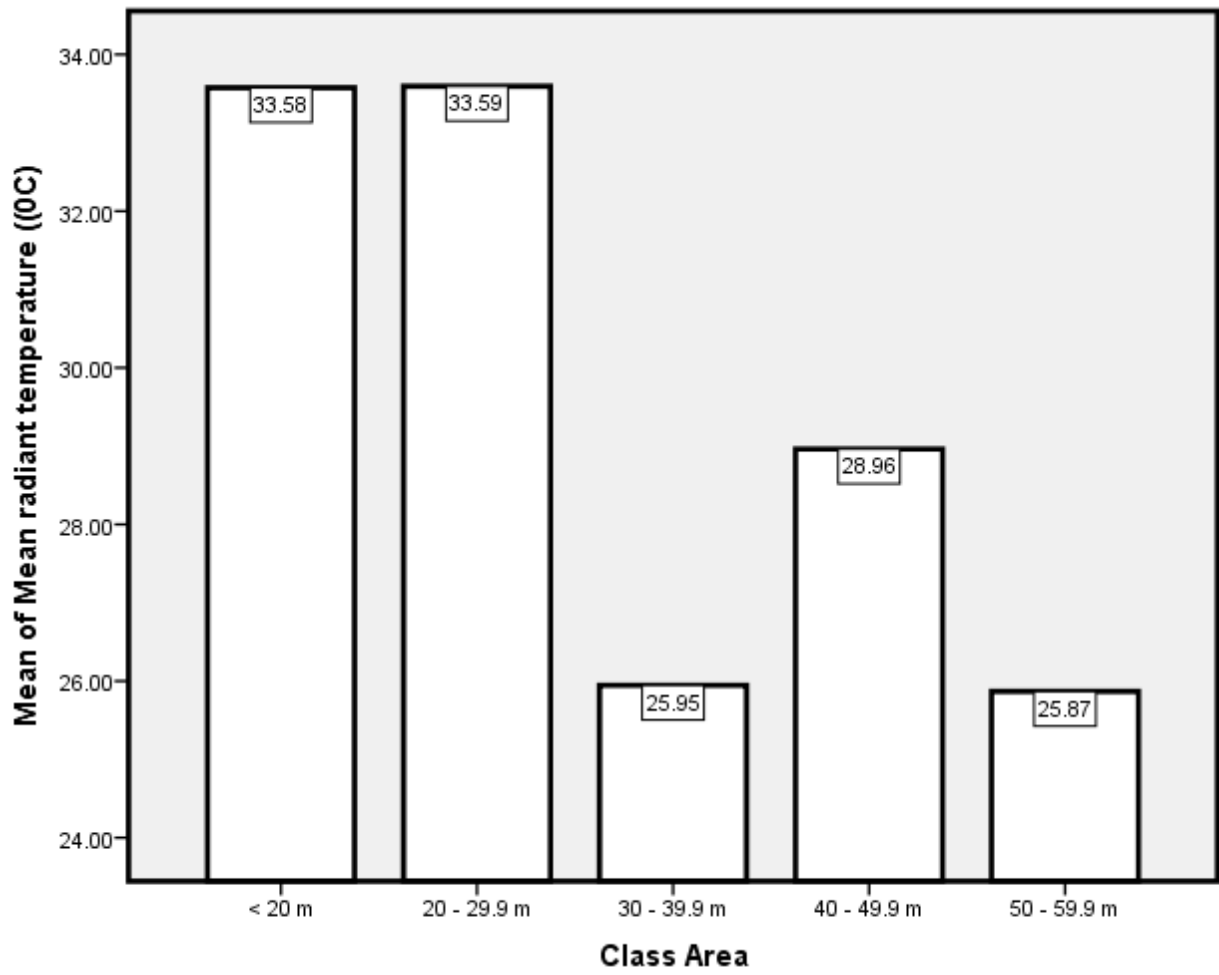
	40 - 49.9 m	4.63150*	1.62523	.007	1.3442	7.9188
	50 - 59.9 m	7.72650*	1.91240	.000	3.8583	11.5947
30 - 39.9 m	< 20 m	-7.62833*	2.60245	.006	-12.8923	-2.3644
	20 - 29.9 m	-7.64733*	2.08196	.001	-11.8585	-3.4362
	40 - 49.9 m	-3.01583	1.93003	.126	-6.9197	.8880
	50 - 59.9 m	.07917	2.17736	.971	-4.3250	4.4833
40 - 49.9 m	< 20 m	-4.61250*	2.25378	.047	-9.1712	-.0538
	20 - 29.9 m	-4.63150*	1.62523	.007	-7.9188	-1.3442
	30 - 39.9 m	3.01583	1.93003	.126	-.8880	6.9197
	50 - 59.9 m	3.09500	1.74577	.084	-.4362	6.6262
50 - 59.9 m	< 20 m	-7.70750*	2.46890	.003	-12.7013	-2.7137
	20 - 29.9 m	-7.72650*	1.91240	.000	-11.5947	-3.8583
	30 - 39.9 m	-.07917	2.17736	.971	-4.4833	4.3250
	40 - 49.9 m	-3.09500	1.74577	.084	-6.6262	.4362
Air Velocity (m/s)	< 20 m					
	20 - 29.9 m	-45.18200	33.43259	.184	-112.6052	22.2412
	30 - 39.9 m	14.40800	44.22716	.746	-74.7846	103.6006
	40 - 49.9 m	9.77657	33.43259	.771	-57.6467	77.1998
	50 - 59.9 m	14.80400	35.38172	.678	-56.5500	86.1580
	20 - 29.9 m					
	< 20 m	45.18200	33.43259	.184	-22.2412	112.6052
	30 - 39.9 m	59.59000	38.84516	.132	-18.7487	137.9287
	40 - 49.9 m	54.95857*	25.89677	.040	2.7328	107.1844
	50 - 59.9 m	59.98600*	28.36849	.040	2.7755	117.1965
	30 - 39.9 m					
	< 20 m	-14.40800	44.22716	.746	-103.6006	74.7846
	20 - 29.9 m	-59.59000	38.84516	.132	-137.9287	18.7487
	40 - 49.9 m	-4.63143	38.84516	.906	-82.9702	73.7073
	50 - 59.9 m	.39600	40.53486	.992	-81.3503	82.1423
	40 - 49.9 m					
	< 20 m	-9.77657	33.43259	.771	-77.1998	57.6467
	20 - 29.9 m	-54.95857*	25.89677	.040	-107.1844	-2.7328
	30 - 39.9 m	4.63143	38.84516	.906	-73.7073	82.9702
	50 - 59.9 m	5.02743	28.36849	.860	-52.1831	62.2379
	50 - 59.9 m					
	< 20 m	-14.80400	35.38172	.678	-86.1580	56.5500
	20 - 29.9 m	-59.98600*	28.36849	.040	-117.1965	-2.7755
	30 - 39.9 m	-.39600	40.53486	.992	-82.1423	81.3503
	40 - 49.9 m	-5.02743	28.36849	.860	-62.2379	52.1831

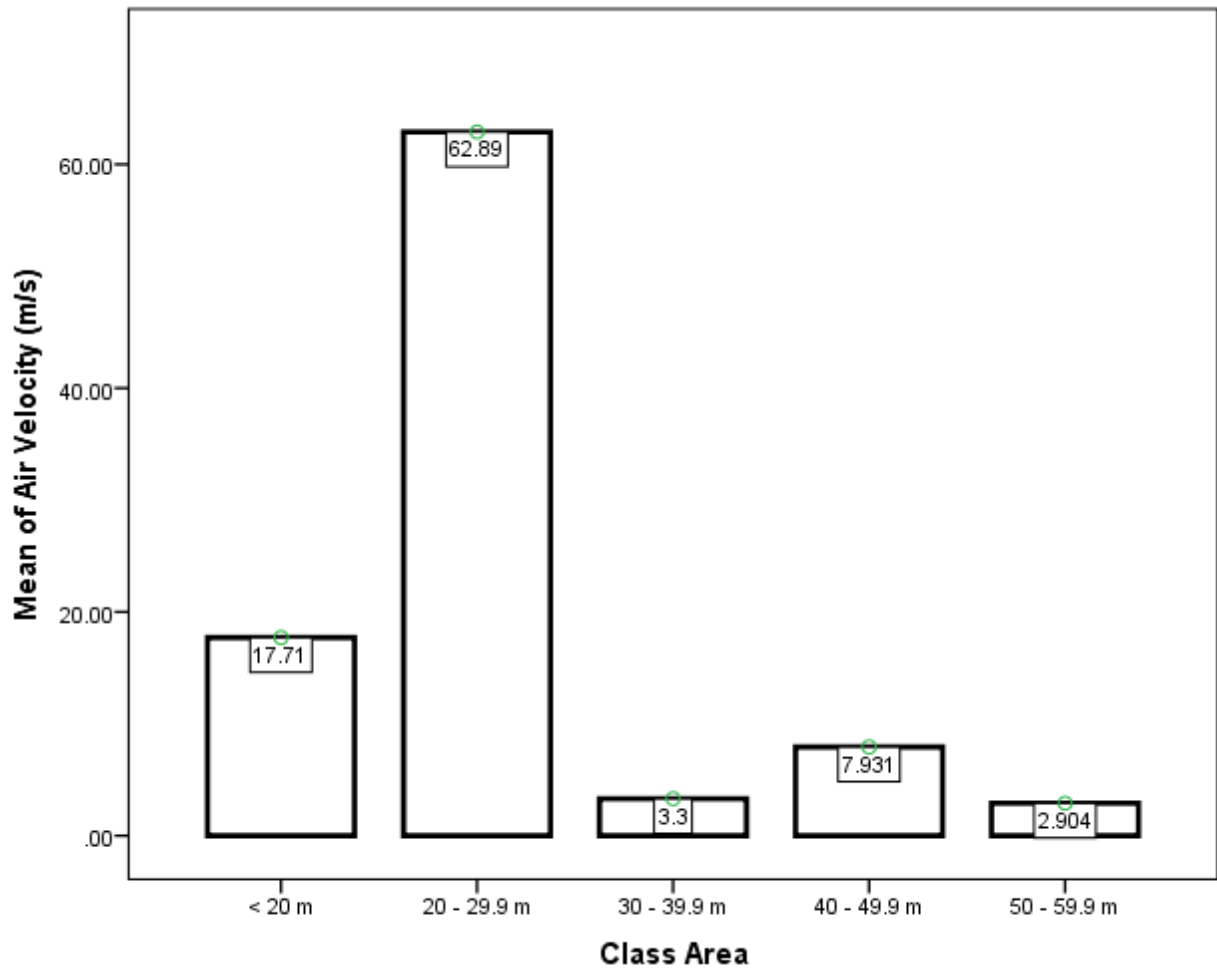
*. The mean difference is significant at the 0.05 level.

Means Plots









```

GLM air_temp humidity BY wintype roofmat ceiling rooftype floortype extwall
int_wall floorfinish
  Area
/METHOD=SSTYPE(3)
/INTERCEPT=EXCLUDE
/EMMEANS=TABLES(OVERALL)
/EMMEANS=TABLES(wintype) COMPARE ADJ(LSD)
/EMMEANS=TABLES(roofmat) COMPARE ADJ(LSD)
/EMMEANS=TABLES(ceiling) COMPARE ADJ(LSD)
/EMMEANS=TABLES(rooftype) COMPARE ADJ(LSD)
/EMMEANS=TABLES(floortype) COMPARE ADJ(LSD)
/EMMEANS=TABLES(extwall) COMPARE ADJ(LSD)
/EMMEANS=TABLES(int_wall) COMPARE ADJ(LSD)
/EMMEANS=TABLES(floorfinish) COMPARE ADJ(LSD)
/EMMEANS=TABLES(Area) COMPARE ADJ(LSD)

```

/CRITERIA=ALPHA(.05)
 /DESIGN=wintype roofmat ceiling rooftype floortype extwall int_wall
 floorfinish Area.

General Linear Model

Between-Subjects Factors

		Value Label	N
Window type	1	Louvres	20
	2	Sliding	16
	3	Projector/ Pivot	8
	4	Metal casement	6
Roof materials	1	Aluminium sheets	32
	2	Ceramics	10
	3	Concrete	2
	4	Corrugated	6
Ceiling type	1	Asbestos	10
	2	Wooden panel	6
	3	PVC boards	16
	5	POP	2
	6	None	6
	7	Concrete	10
	Roof type	1	Flat roof	14
2		Gable	24
3		Pitched	4
6		HIP roof	8
Floor type	1	Wooden	2
	2	Concrete	48
External wall	1	Plastered	10
	5	Paint	40
Internal wall	1	Plastered	10
	5	Paint	40
Floor finishing	1	Oversite concrete slab	12
	3	Tiled	14
	4	Granolithic	2
	5	Terrazzo	14
	6	Screeded	8
	Class Area	1	< 20 sq. m	6
2		20 - 29.9 sq. m	10
3		30 - 39.9 sq. m	6
4		40 - 49.9 sq. m	18
5		50 - 59.9 sq. m	10

Multivariate Tests^a

Effect		Value	F	Hypothesis df	Error df	Sig.
wintype	Pillai's Trace	.333	6.499 ^b	2.000	26.000	.005
	Wilks' Lambda	.667	6.499 ^b	2.000	26.000	.005
	Hotelling's Trace	.500	6.499 ^b	2.000	26.000	.005
	Roy's Largest Root	.500	6.499 ^b	2.000	26.000	.005
roofmat	Pillai's Trace	.225	3.778 ^b	2.000	26.000	.036
	Wilks' Lambda	.775	3.778 ^b	2.000	26.000	.036
	Hotelling's Trace	.291	3.778 ^b	2.000	26.000	.036
	Roy's Largest Root	.291	3.778 ^b	2.000	26.000	.036
ceiling	Pillai's Trace	.179	1.887 ^b	3.000	26.000	.157
	Wilks' Lambda	.821	1.887 ^b	3.000	26.000	.157
	Hotelling's Trace	.218	1.887 ^b	3.000	26.000	.157
	Roy's Largest Root	.218	1.887 ^b	3.000	26.000	.157
rooftype	Pillai's Trace	.238	4.060 ^b	2.000	26.000	.029
	Wilks' Lambda	.762	4.060 ^b	2.000	26.000	.029
	Hotelling's Trace	.312	4.060 ^b	2.000	26.000	.029
	Roy's Largest Root	.312	4.060 ^b	2.000	26.000	.029
floortype	Pillai's Trace	.062	1.727 ^b	1.000	26.000	.200
	Wilks' Lambda	.938	1.727 ^b	1.000	26.000	.200
	Hotelling's Trace	.066	1.727 ^b	1.000	26.000	.200
	Roy's Largest Root	.066	1.727 ^b	1.000	26.000	.200
extwall	Pillai's Trace	.000	. ^b	.000	.000	.
	Wilks' Lambda	1.000	. ^b	.000	26.000	.
	Hotelling's Trace	.000	. ^b	.000	2.000	.
	Roy's Largest Root	.000	.000 ^b	1.000	25.000	1.000
int_wall	Pillai's Trace	.000	. ^b	.000	.000	.
	Wilks' Lambda	1.000	. ^b	.000	26.000	.
	Hotelling's Trace	.000	. ^b	.000	2.000	.
	Roy's Largest Root	.000	.000 ^b	1.000	25.000	1.000
floorfinish	Pillai's Trace	.227	3.817 ^b	2.000	26.000	.035
	Wilks' Lambda	.773	3.817 ^b	2.000	26.000	.035
	Hotelling's Trace	.294	3.817 ^b	2.000	26.000	.035
	Roy's Largest Root	.294	3.817 ^b	2.000	26.000	.035
Area	Pillai's Trace	.106	1.024 ^b	3.000	26.000	.398
	Wilks' Lambda	.894	1.024 ^b	3.000	26.000	.398

Hotelling's Trace	.118	1.024 ^b	3.000	26.000	.398
Roy's Largest Root	.118	1.024 ^b	3.000	26.000	.398

a. Design: wintype + roofmat + ceiling + rooftype + floortype + extwall + int_wall + floorfinish + Area

b. Exact statistic

Tests of Between-Subjects Effects

Source	Dependent Variable	Type III Sum of Squares	df	Mean Square	F	Sig.
Model	Air temperature (0C)	42542.007 ^a	24	1772.584	245.549	.000
	Humidity (%)	182575.890 ^b	24	7607.329	520.159	.000
wintype	Air temperature (0C)	93.837	2	46.918	6.499	.005
	Humidity (%)	1144.762	2	572.381	39.137	.000
roofmat	Air temperature (0C)	54.548	2	27.274	3.778	.036
	Humidity (%)	1057.301	2	528.651	36.147	.000
ceiling	Air temperature (0C)	40.867	3	13.622	1.887	.157
	Humidity (%)	1326.451	3	442.150	30.233	.000
rooftype	Air temperature (0C)	58.616	2	29.308	4.060	.029
	Humidity (%)	875.916	2	437.958	29.946	.000
floortype	Air temperature (0C)	12.467	1	12.467	1.727	.200
	Humidity (%)	180.229	1	180.229	12.323	.002
extwall	Air temperature (0C)	.000	0	.	.	.
	Humidity (%)	.000	0	.	.	.
int_wall	Air temperature (0C)	.000	0	.	.	.
	Humidity (%)	.000	0	.	.	.
floorfinish	Air temperature (0C)	55.114	2	27.557	3.817	.035
	Humidity (%)	346.723	2	173.362	11.854	.000
Area	Air temperature (0C)	22.185	3	7.395	1.024	.398
	Humidity (%)	1008.376	3	336.125	22.983	.000
Error	Air temperature (0C)	187.690	26	7.219		
	Humidity (%)	380.250	26	14.625		
Total	Air temperature (0C)	42729.697	50			
	Humidity (%)	182956.140	50			

a. R Squared = .996 (Adjusted R Squared = .992)

b. R Squared = .998 (Adjusted R Squared = .996)

Estimated Marginal Means

1. Grand Mean

Dependent Variable	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
Air temperature (0C)	a	.	.	.
Humidity (%)	a	.	.	.

a. This modified population marginal mean is not estimable.

2. Window type

Estimates

Dependent Variable	Window type	Mean	Std. Error	95% Confidence Interval	
				Lower Bound	Upper Bound
Air temperature (0C)	Louvres	a	.	.	.
	Sliding	a	.	.	.
	Projector/ Pivot	a	.	.	.
	Metal casement	a	.	.	.
Humidity (%)	Louvres	a	.	.	.
	Sliding	a	.	.	.
	Projector/ Pivot	a	.	.	.
	Metal casement	a	.	.	.

a. This modified population marginal mean is not estimable.

Pairwise Comparisons

Dependent Variable	(I) Window type	(J) Window type	Mean Difference (I-J)	Std. Error	Sig. ^f	95% Confidence Interval for Difference ^f	
						Lower Bound	Upper Bound
Air temperature (0C)	Louvres	Sliding	16.500 ^{a,b}	7.599	.039	.879	32.121
		Projector/ Pivot	c,d,e	.	.	.	.
		Metal casement	6.250 ^b	11.320	.586	-17.018	29.518
	Sliding	Louvres	-16.500 ^{a,b}	7.599	.039	-32.121	-.879
		Projector/ Pivot	c,d,e	.	.	.	.
		Metal casement	-10.250 ^b	5.856	.092	-22.287	1.787
	Projector/ Pivot	Louvres	c,d,e	.	.	.	.
		Sliding	c,d,e	.	.	.	.
		Metal casement	c,d,e	.	.	.	.
	Metal casement	Louvres	-6.250 ^b	11.320	.586	-29.518	17.018

	Sliding	10.250 ^b	5.856	.092	-1.787	22.287
	Projector/ Pivot	. _{c,d,e}	.	.	.	.
Humidity (%)	Louvres	81.300 ^{*b}	10.817	.000	59.066	103.534
	Projector/ Pivot	. _{c,d,e}	.	.	.	.
	Metal casement	71.150 ^{*b}	16.112	.000	38.031	104.269
Sliding	Louvres	-81.300 ^{*b}	10.817	.000	-103.534	-59.066
	Projector/ Pivot	. _{c,d,e}	.	.	.	.
	Metal casement	-10.150 ^b	8.335	.234	-27.282	6.982
Projector/ Pivot	Louvres	. _{c,d,e}	.	.	.	.
	Sliding	. _{c,d,e}	.	.	.	.
	Metal casement	. _{c,d,e}	.	.	.	.
Metal casement	Louvres	-71.150 ^{*b}	16.112	.000	-104.269	-38.031
	Sliding	10.150 ^b	8.335	.234	-6.982	27.282
	Projector/ Pivot	. _{c,d,e}	.	.	.	.

Based on estimated marginal means

*. The mean difference is significant at the .05 level.

b. The difference (I-J) is estimable though the modified population marginal means (I) and (J) are not estimable.

c. This difference of modified population marginal means is not estimable.

d. This modified population marginal mean (I) is not estimable.

e. This modified population marginal mean (J) is not estimable.

f. Adjustment for multiple comparisons: Least Significant Difference (equivalent to no adjustments).

Multivariate Tests

	Value	F	Hypothesis df	Error df	Sig.
Pillai's trace	.333	6.499 ^a	2.000	26.000	.005
Wilks' lambda	.667	6.499 ^a	2.000	26.000	.005
Hotelling's trace	.500	6.499 ^a	2.000	26.000	.005
Roy's largest root	.500	6.499 ^a	2.000	26.000	.005

a. Exact statistic

Univariate Tests

Dependent Variable		Sum of Squares	df	Mean Square	F	Sig.
Air temperature (0C)	Contrast	93.837	2	46.918	6.499	.005
	Error	187.690	26	7.219		
Humidity (%)	Contrast	1144.762	2	572.381	39.137	.000
	Error	380.250	26	14.625		

Multivariate Tests

	Value	F	Hypothesis df	Error df	Sig.
--	-------	---	---------------	----------	------

Pillai's trace	.225	3.778 ^a	2.000	26.000	.036
Wilks' lambda	.775	3.778 ^a	2.000	26.000	.036
Hotelling's trace	.291	3.778 ^a	2.000	26.000	.036
Roy's largest root	.291	3.778 ^a	2.000	26.000	.036

a. Exact statistic

Univariate Tests

Dependent Variable		Sum of Squares	df	Mean Square	F	Sig.
Air temperature (0C)	Contrast	54.548	2	27.274	3.778	.036
	Error	187.690	26	7.219		
Humidity (%)	Contrast	1057.301	2	528.651	36.147	.000
	Error	380.250	26	14.625		

REGRESSION

```

/DESCRIPTIVES MEAN STDDEV CORR SIG N
/MISSING LISTWISE
/STATISTICS COEFF OUTS R ANOVA
/CRITERIA=PIN(.05) POUT(.10)
/NOORIGIN
/DEPENDENT TSV
/METHOD=ENTER air_temp humidity.

```

Regression

Descriptive Statistics

	Mean	Std. Deviation	N
Thermal Sensation Vote	.39	1.712	62
Air temperature (0C)	28.7510	3.97070	62
Humidity (%)	55.7648	17.26593	62

Correlations

		Thermal Sensation Vote	Air temperature (0C)	Humidity (%)
Pearson Correlation	Thermal Sensation Vote	1.000	.395	.516
	Air temperature (0C)	.395	1.000	.271
	Humidity (%)	.516	.271	1.000
Sig. (1-tailed)	Thermal Sensation Vote	.	.001	.000
	Air temperature (0C)	.001	.	.017
	Humidity (%)	.000	.017	.
N	Thermal Sensation Vote	62	62	62

Air temperature (0C)	62	62	62
Humidity (%)	62	62	62

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	Humidity (%), Air temperature (0C) ^b		Enter

- a. Dependent Variable: Thermal Sensation Vote
- b. All requested variables entered.

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.580 ^a	.336	.314	1.418

- a. Predictors: (Constant), Humidity (%), Air temperature (0C)

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	60.122	2	30.061	14.956	.000 ^b
	Residual	118.588	59	2.010		
	Total	178.710	61			

- a. Dependent Variable: Thermal Sensation Vote
- b. Predictors: (Constant), Humidity (%), Air temperature (0C)

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-5.464	1.348		-4.053	.000
	Air temperature (0C)	.119	.047	.275	2.498	.015
	Humidity (%)	.044	.011	.441	4.006	.000

- a. Dependent Variable: Thermal Sensation Vote

DATASET ACTIVATE DataSet1.

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SAVE OUTFILE='C:\Users\Mr Ikegwu\Desktop\Desktop\Consults\Oginni Yemi PhD\Oginni
Yemi PhD.sav'
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/DESCRIPTIVES MEAN STDDEV CORR SIG N
/MISSING LISTWISE
/STATISTICS COEFF OUTS R ANOVA
/CRITERIA=PIN(.05) POUT(.10)
/NOORIGIN
/DEPENDENT TRV
/METHOD=ENTER air_temp humidity.

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Regression

Descriptive Statistics

	Mean	Std. Deviation	N
Thermal Preference Vote	-.19	1.457	64
Air temperature (0C)	28.8525	3.94849	64
Humidity (%)	56.7409	17.85086	64

Correlations

		Thermal Preference Vote	Air temperature (0C)	Humidity (%)
Pearson Correlation	Thermal Preference Vote	1.000	-.610	-.237
	Air temperature (0C)	-.610	1.000	.300
	Humidity (%)	-.237	.300	1.000
Sig. (1-tailed)	Thermal Preference Vote	.	.000	.029
	Air temperature (0C)	.000	.	.008
	Humidity (%)	.029	.008	.
N	Thermal Preference Vote	64	64	64
	Air temperature (0C)	64	64	64
	Humidity (%)	64	64	64

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	Humidity (%), Air temperature (0C) ^b	.	Enter

a. Dependent Variable: Thermal Preference Vote

b. All requested variables entered.

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.612 ^a	.375	.354	1.171

a. Predictors: (Constant), Humidity (%), Air temperature (0C)

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	50.137	2	25.068	18.289	.000 ^b
	Residual	83.613	61	1.371		
	Total	133.750	63			

a. Dependent Variable: Thermal Preference Vote

b. Predictors: (Constant), Humidity (%), Air temperature (0C)

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	6.389	1.098		5.817	.000
	Air temperature (0C)	-.218	.039	-.591	-5.575	.000
	Humidity (%)	-.005	.009	-.060	-.568	.572

a. Dependent Variable: Thermal Preference Vote

```

REGRESSION
/DESCRIPTIVES MEAN STDDEV CORR SIG N
/MISSING LISTWISE
/STATISTICS COEFF OUTS R ANOVA
/CRITERIA=PIN(.05) POUT(.10)
/NOORIGIN
/DEPENDENT TRV
/METHOD=ENTER air_temp humidity class_area class_dens.

```

Regression

Descriptive Statistics

	Mean	Std. Deviation	N
Thermal Preference Vote	-.30	1.380	46
Air temperature (0C)	29.1087	4.05922	46
Humidity (%)	55.2239	15.44471	46
Area of Class	36.2542	17.10587	46
student density per metre	1.4114	.60826	46

Correlations

		Thermal Preference Vote	Air temperature (0C)	Humidity (%)	Area of Class	student density per metre
Pearson Correlation	Thermal Preference Vote	1.000	-.619	-.428	-.046	-.345
	Air temperature (0C)	-.619	1.000	.336	-.234	.060
	Humidity (%)	-.428	.336	1.000	-.275	-.310
	Area of Class	-.046	-.234	-.275	1.000	.436
	student density per metre	-.345	.060	-.310	.436	1.000
Sig. (1-tailed)	Thermal Preference Vote	.	.000	.001	.381	.009
	Air temperature (0C)	.000	.	.011	.059	.346
	Humidity (%)	.001	.011	.	.032	.018
	Area of Class	.381	.059	.032	.	.001
	student density per metre	.009	.346	.018	.001	.
N	Thermal Preference Vote	46	46	46	46	46

Air temperature (0C)	46	46	46	46	46
Humidity (%)	46	46	46	46	46
Area of Class	46	46	46	46	46
student density per metre	46	46	46	46	46

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	student density per metre, Air temperature (0C), Humidity (%), Area of Class ^b		Enter

a. Dependent Variable: Thermal Preference Vote

b. All requested variables entered.

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.786 ^a	.618	.581	.893

a. Predictors: (Constant), student density per metre, Air temperature (0C), Humidity (%), Area of Class

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	53.019	4	13.255	16.609	.000 ^b
	Residual	32.720	41	.798		
	Total	85.739	45			

a. Dependent Variable: Thermal Preference Vote

b. Predictors: (Constant), student density per metre, Air temperature (0C), Humidity (%), Area of Class

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	8.058	1.135		7.097	.000

Air temperature (0C)	-0.162	.037	-.476	-4.427	.000
Humidity (%)	-.038	.010	-.420	-3.830	.000
Area of Class	-.008	.009	-.096	-.858	.396
student density per metre	-.917	.259	-.404	-3.546	.001

a. Dependent Variable: Thermal Preference Vote

```

COMPUTE class_density=class_area / classize.
EXECUTE.
REGRESSION
  /DESCRIPTIVES MEAN STDDEV CORR SIG N
  /MISSING LISTWISE
  /STATISTICS COEFF OUTS R ANOVA
  /CRITERIA=PIN(.05) POUT(.10)
  /NOORIGIN
  /DEPENDENT TSV
  /METHOD=ENTER air_temp humidity class_area class_density.

```

Regression

Descriptive Statistics

	Mean	Std. Deviation	N
Thermal Sensation Vote	.50	1.621	60
Air temperature (0C)	28.9260	3.91600	60
Humidity (%)	56.3483	17.24774	60
Area of Class	39.3783	16.55398	60
class_density	1.5148	.62851	60

Correlations

		Thermal Sensation Vote	Air temperature (0C)	Humidity (%)	Area of Class	class_density
Pearson Correlation	Thermal Sensation Vote	1.000	.339	.490	-.124	-.053
	Air temperature (0C)	.339	1.000	.237	-.318	.061
	Humidity (%)	.490	.237	1.000	-.170	-.208
	Area of Class	-.124	-.318	-.170	1.000	.380
	class_density	-.053	.061	-.208	.380	1.000
Sig. (1-tailed)	Thermal Sensation Vote	.	.004	.000	.173	.344
	Air temperature (0C)	.004	.	.034	.007	.321

	Humidity (%)	.000	.034	.	.097	.055
	Area of Class	.173	.007	.097	.	.001
	class_density	.344	.321	.055	.001	.
N	Thermal Sensation Vote	60	60	60	60	60
	Air temperature (0C)	60	60	60	60	60
	Humidity (%)	60	60	60	60	60
	Area of Class	60	60	60	60	60
	class_density	60	60	60	60	60

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	class_density, Air temperature (0C), Humidity (%), Area of Class ^b		Enter

a. Dependent Variable: Thermal Sensation Vote

b. All requested variables entered.

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.542 ^a	.293	.242	1.411

a. Predictors: (Constant), class_density, Air temperature (0C), Humidity (%), Area of Class

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	45.473	4	11.368	5.709	.001 ^b
	Residual	109.527	55	1.991		
	Total	155.000	59			

a. Dependent Variable: Thermal Sensation Vote

b. Predictors: (Constant), class_density, Air temperature (0C), Humidity (%), Area of Class

Coefficients^a

Model	Unstandardized Coefficients	Standardized Coefficients	t	Sig.
-------	-----------------------------	---------------------------	---	------

		B	Std. Error	Beta		
1	(Constant)	-4.856	1.692		-2.869	.006
	Air temperature (0C)	.100	.052	.241	1.915	.061
	Humidity (%)	.041	.011	.440	3.667	.001
	Area of Class	.002	.013	.022	.164	.870
	class_density	.040	.330	.016	.122	.904

a. Dependent Variable: Thermal Sensation Vote

```

REGRESSION
  /DESCRIPTIVES MEAN STDDEV CORR SIG N
  /MISSING LISTWISE
  /STATISTICS COEFF OUTS R ANOVA
  /CRITERIA=PIN(.05) POUT(.10)
  /NOORIGIN
  /DEPENDENT TRV
  /METHOD=ENTER air_temp humidity class_area class_density.

```

Regression

Descriptive Statistics

	Mean	Std. Deviation	N
Thermal Preference Vote	-.30	1.430	60
Air temperature (0C)	28.9260	3.91600	60
Humidity (%)	56.3483	17.24774	60
Area of Class	39.3783	16.55398	60
class_density	1.5148	.62851	60

Correlations

	Thermal Preference Vote	Air temperature (0C)	Humidity (%)	Area of Class	class_density
Pearson Correlation	1.000	-.671	-.330	.094	-.313
	-.671	1.000	.237	-.318	.061
	-.330	.237	1.000	-.170	-.208
	.094	-.318	-.170	1.000	.380
	-.313	.061	-.208	.380	1.000
Sig. (1-	.	.000	.005	.237	.007

tailed)	Air temperature (0C)	.000	.	.034	.007	.321
	Humidity (%)	.005	.034	.	.097	.055
	Area of Class	.237	.007	.097	.	.001
	class_density	.007	.321	.055	.001	.
N	Thermal Preference Vote	60	60	60	60	60
	Air temperature (0C)	60	60	60	60	60
	Humidity (%)	60	60	60	60	60
	Area of Class	60	60	60	60	60
	class_density	60	60	60	60	60

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	class_density, Air temperature (0C), Humidity (%), Area of Class ^b	.	Enter

a. Dependent Variable: Thermal Preference Vote

b. All requested variables entered.

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.765 ^a	.585	.554	.954

a. Predictors: (Constant), class_density, Air temperature (0C), Humidity (%), Area of Class

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	70.495	4	17.624	19.346	.000 ^b
	Residual	50.105	55	.911		
	Total	120.600	59			

a. Dependent Variable: Thermal Preference Vote

b. Predictors: (Constant), class_density, Air temperature (0C), Humidity (%), Area of Class

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	8.359	1.145		7.302	.000
	Air temperature (0C)	-.217	.035	-.594	-6.157	.000
	Humidity (%)	-.022	.008	-.260	-2.826	.007
	Area of Class	-.001	.009	-.015	-.149	.882
	class_density	-.740	.223	-.325	-3.314	.002

a. Dependent Variable: Thermal Preference Vote

```

REGRESSION
  /DESCRIPTIVES MEAN STDDEV CORR SIG N
  /MISSING LISTWISE
  /STATISTICS COEFF OUTS R ANOVA
  /CRITERIA=PIN(.05) POUT(.10)
  /NOORIGIN
  /DEPENDENT TRV
  /METHOD=ENTER air_temp humidity class_density.

```

Regression

Descriptive Statistics

	Mean	Std. Deviation	N
Thermal Preference Vote	-.30	1.430	60
Air temperature (0C)	28.9260	3.91600	60
Humidity (%)	56.3483	17.24774	60
class_density	1.5148	.62851	60

Correlations

		Thermal Preference Vote	Air temperature (0C)	Humidity (%)	class_density
Pearson Correlation	Thermal Preference Vote	1.000	-.671	-.330	-.313
	Air temperature (0C)	-.671	1.000	.237	.061
	Humidity (%)	-.330	.237	1.000	-.208
	class_density	-.313	.061	-.208	1.000

Sig. (1-tailed)	Thermal Preference Vote	.	.000	.005	.007
	Air temperature (0C)	.000	.	.034	.321
	Humidity (%)	.005	.034	.	.055
	class_density	.007	.321	.055	.
N	Thermal Preference Vote	60	60	60	60
	Air temperature (0C)	60	60	60	60
	Humidity (%)	60	60	60	60
	class_density	60	60	60	60

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	class_density, Air temperature (0C), Humidity (%) ^b	.	Enter

a. Dependent Variable: Thermal Preference Vote

b. All requested variables entered.

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.764 ^a	.584	.562	.946

a. Predictors: (Constant), class_density, Air temperature (0C), Humidity (%)

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	70.475	3	23.492	26.245	.000 ^b
	Residual	50.125	56	.895		
	Total	120.600	59			

a. Dependent Variable: Thermal Preference Vote

b. Predictors: (Constant), class_density, Air temperature (0C), Humidity (%)

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	8.273	.983		8.417	.000

Air temperature (0C)	-0.215	.033	-.589	-6.595	.000
Humidity (%)	-.022	.008	-.260	-2.850	.006
class_density	-.754	.202	-.331	-3.737	.000

a. Dependent Variable: Thermal Preference Vote

```

REGRESSION
  /DESCRIPTIVES MEAN STDDEV CORR SIG N
  /MISSING LISTWISE
  /STATISTICS COEFF OUTS R ANOVA
  /CRITERIA=PIN(.05) POUT(.10)
  /NOORIGIN
  /DEPENDENT TSV
  /METHOD=ENTER air_temp humidity class_density.

```

Regression

Descriptive Statistics

	Mean	Std. Deviation	N
Thermal Sensation Vote	.50	1.621	60
Air temperature (0C)	28.9260	3.91600	60
Humidity (%)	56.3483	17.24774	60
class_density	1.5148	.62851	60

Correlations

		Thermal Sensation Vote	Air temperature (0C)	Humidity (%)	class_density
Pearson Correlation	Thermal Sensation Vote	1.000	.339	.490	-.053
	Air temperature (0C)	.339	1.000	.237	.061
	Humidity (%)	.490	.237	1.000	-.208
	class_density	-.053	.061	-.208	1.000
Sig. (1-tailed)	Thermal Sensation Vote	.	.004	.000	.344
	Air temperature (0C)	.004	.	.034	.321
	Humidity (%)	.000	.034	.	.055
	class_density	.344	.321	.055	.
N	Thermal Sensation Vote	60	60	60	60
	Air temperature (0C)	60	60	60	60
	Humidity (%)	60	60	60	60

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	class_density, Air temperature (0C), Humidity (%) ^b		Enter

a. Dependent Variable: Thermal Sensation Vote

b. All requested variables entered.

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.541 ^a	.293	.255	1.399

a. Predictors: (Constant), class_density, Air temperature (0C), Humidity (%)

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	45.419	3	15.140	7.737	.000 ^b
	Residual	109.581	56	1.957		
	Total	155.000	59			

a. Dependent Variable: Thermal Sensation Vote

b. Predictors: (Constant), class_density, Air temperature (0C), Humidity (%)

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-4.717	1.453		-3.246	.002
	Air temperature (0C)	.097	.048	.233	2.005	.050
	Humidity (%)	.041	.011	.439	3.698	.000
	class_density	.063	.298	.024	.210	.835

a. Dependent Variable: Thermal Sensation Vote

```

/DESCRIPTIVES MEAN STDDEV CORR SIG N
/MISSING LISTWISE
/STATISTICS COEFF OUTS R ANOVA
/CRITERIA=PIN(.05) POUT(.10)
/NOORIGIN
/DEPENDENT TSV
/METHOD=ENTER air_temp humidity class_area classize.

```

Regression

Descriptive Statistics

	Mean	Std. Deviation	N
Thermal Sensation Vote	.50	1.621	60
Air temperature (0C)	28.9260	3.91600	60
Humidity (%)	56.3483	17.24774	60
Area of Class	39.3783	16.55398	60
Number of pupils in the Classroom	27.43	9.849	60

Correlations

		Thermal Sensation Vote	Air temperature (0C)	Humidity (%)	Area of Class	Number of pupils in the Classroom
Pearson Correlation	Thermal Sensation Vote	1.000	.339	.490	-.124	.207
	Air temperature (0C)	.339	1.000	.237	-.318	-.218
	Humidity (%)	.490	.237	1.000	-.170	.121
	Area of Class	-.124	-.318	-.170	1.000	.517
	Number of pupils in the Classroom	.207	-.218	.121	.517	1.000
Sig. (1-tailed)	Thermal Sensation Vote	.	.004	.000	.173	.056
	Air temperature (0C)	.004	.	.034	.007	.047
	Humidity (%)	.000	.034	.	.097	.179
	Area of Class	.173	.007	.097	.	.000
	Number of pupils in the Classroom	.056	.047	.179	.000	.
N	Thermal Sensation Vote	60	60	60	60	60
	Air temperature (0C)	60	60	60	60	60
	Humidity (%)	60	60	60	60	60

Area of Class	60	60	60	60	60
Number of pupils in the Classroom	60	60	60	60	60

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	Number of pupils in the Classroom, Humidity (%), Air temperature (0C), Area of Class ^b		Enter

a. Dependent Variable: Thermal Sensation Vote

b. All requested variables entered.

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.590 ^a	.348	.301	1.355

a. Predictors: (Constant), Number of pupils in the Classroom, Humidity (%), Air temperature (0C), Area of Class

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	53.956	4	13.489	7.342	.000 ^b
	Residual	101.044	55	1.837		
	Total	155.000	59			

a. Dependent Variable: Thermal Sensation Vote

b. Predictors: (Constant), Number of pupils in the Classroom, Humidity (%), Air temperature (0C), Area of Class

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-5.572	1.659		-3.358	.001
	Air temperature (0C)	.114	.049	.275	2.332	.023

Humidity (%)	.035	.011	.370	3.165	.003
Area of Class	-.012	.013	-.120	-.894	.375
Number of pupils in the Classroom	.047	.022	.284	2.153	.036

a. Dependent Variable: Thermal Sensation Vote

```

REGRESSION
/DESCRIPTIVES MEAN STDDEV CORR SIG N
/MISSING LISTWISE
/STATISTICS COEFF OUTS R ANOVA
/CRITERIA=PIN(.05) POUT(.10)
/NOORIGIN
/DEPENDENT TRV
/METHOD=ENTER air_temp humidity class_area classize.

```

Regression

Descriptive Statistics

	Mean	Std. Deviation	N
Thermal Preference Vote	-.30	1.430	60
Air temperature (0C)	28.9260	3.91600	60
Humidity (%)	56.3483	17.24774	60
Area of Class	39.3783	16.55398	60
Number of pupils in the Classroom	27.43	9.849	60

Correlations

		Thermal Preference Vote	Air temperature (0C)	Humidity (%)	Area of Class	Number of pupils in the Classroom
Pearson Correlation	Thermal Preference Vote	1.000	-.671	-.330	.094	.183
	Air temperature (0C)	-.671	1.000	.237	-.318	-.218
	Humidity (%)	-.330	.237	1.000	-.170	.121
	Area of Class	.094	-.318	-.170	1.000	.517
	Number of pupils in the Classroom	.183	-.218	.121	.517	1.000
Sig. (1-tailed)	Thermal Preference Vote	.	.000	.005	.237	.081
	Air temperature (0C)	.000	.	.034	.007	.047

	Humidity (%)	.005	.034	.	.097	.179
	Area of Class	.237	.007	.097	.	.000
	Number of pupils in the Classroom	.081	.047	.179	.000	.
N	Thermal Preference Vote	60	60	60	60	60
	Air temperature (0C)	60	60	60	60	60
	Humidity (%)	60	60	60	60	60
	Area of Class	60	60	60	60	60
	Number of pupils in the Classroom	60	60	60	60	60

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	Number of pupils in the Classroom, Humidity (%), Air temperature (0C), Area of Class ^b		Enter

a. Dependent Variable: Thermal Preference Vote

b. All requested variables entered.

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.728 ^a	.530	.496	1.015

a. Predictors: (Constant), Number of pupils in the Classroom, Humidity (%), Air temperature (0C), Area of Class

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	63.927	4	15.982	15.510	.000 ^b
	Residual	56.673	55	1.030		
	Total	120.600	59			

a. Dependent Variable: Thermal Preference Vote

b. Predictors: (Constant), Number of pupils in the Classroom, Humidity (%), Air temperature (0C), Area of Class

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	7.785	1.243		6.265	.000
	Air temperature (0C)	-.238	.037	-.651	-6.498	.000
	Humidity (%)	-.020	.008	-.245	-2.469	.017
	Area of Class	-.022	.010	-.260	-2.279	.027
	Number of pupils in the Classroom	.030	.016	.205	1.827	.073

a. Dependent Variable: Thermal Preference Vote

REGRESSION

```

/DESCRIPTIVES MEAN STDDEV CORR SIG N
/MISSING LISTWISE
/STATISTICS COEFF OUTS R ANOVA
/CRITERIA=PIN(.05) POUT(.10)
/NOORIGIN
/DEPENDENT feelnow
/METHOD=ENTER air_temp humidity class_area classize.

```

Regression

Descriptive Statistics

	Mean	Std. Deviation	N
Feeling now	2.57	.722	60
Air temperature (0C)	28.9260	3.91600	60
Humidity (%)	56.3483	17.24774	60
Area of Class	39.3783	16.55398	60
Number of pupils in the Classroom	27.43	9.849	60

Correlations

	Feeling now	Air temperature (0C)	Humidity (%)	Area of Class	Number of pupils in the Classroom
Pearson Correlation Feeling now	1.000	.218	.092	-.368	-.193
Air temperature (0C)	.218	1.000	.237	-.318	-.218

	Humidity (%)	.092	.237	1.000	-.170	.121
	Area of Class	-.368	-.318	-.170	1.000	.517
	Number of pupils in the Classroom	-.193	-.218	.121	.517	1.000
Sig. (1-tailed)	Feeling now	.	.047	.241	.002	.070
	Air temperature (0C)	.047	.	.034	.007	.047
	Humidity (%)	.241	.034	.	.097	.179
	Area of Class	.002	.007	.097	.	.000
	Number of pupils in the Classroom	.070	.047	.179	.000	.
N	Feeling now	60	60	60	60	60
	Air temperature (0C)	60	60	60	60	60
	Humidity (%)	60	60	60	60	60
	Area of Class	60	60	60	60	60
	Number of pupils in the Classroom	60	60	60	60	60

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	Number of pupils in the Classroom, Humidity (%), Air temperature (0C), Area of Class ^b	.	Enter

a. Dependent Variable: Feeling now

b. All requested variables entered.

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.383 ^a	.147	.085	.691

a. Predictors: (Constant), Number of pupils in the Classroom, Humidity (%), Air temperature (0C), Area of Class

ANOVA^a

Model	Sum of Squares	df	Mean Square	F	Sig.
1 Regression	4.508	4	1.127	2.364	.064 ^b

Residual	26.225	55	.477	
Total	30.733	59		

a. Dependent Variable: Feeling now

b. Predictors: (Constant), Number of pupils in the Classroom, Humidity (%), Air temperature (0C), Area of Class

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	2.523	.845		2.985	.004
	Air temperature (0C)	.020	.025	.110	.816	.418
	Humidity (%)	.000	.006	.010	.072	.943
	Area of Class	-.014	.007	-.332	-2.158	.035
	Number of pupils in the Classroom	.000	.011	.002	.012	.990

a. Dependent Variable: Feeling now

```

REGRESSION
  /DESCRIPTIVES MEAN STDDEV CORR SIG N
  /MISSING LISTWISE
  /STATISTICS COEFF OUTS R ANOVA
  /CRITERIA=PIN(.05) POUT(.10)
  /NOORIGIN
  /DEPENDENT feelnow
  /METHOD=ENTER air_temp humidity class_density.

```

Regression

Descriptive Statistics

	Mean	Std. Deviation	N
Feeling now	2.57	.722	60
Air temperature (0C)	28.9260	3.91600	60
Humidity (%)	56.3483	17.24774	60
class_density	1.5148	.62851	60

Correlations

		Feeling now	Air temperature (0C)	Humidity (%)	class_density
Pearson Correlation	Feeling now	1.000	.218	.092	-.118
	Air temperature (0C)	.218	1.000	.237	.061
	Humidity (%)	.092	.237	1.000	-.208
	class_density	-.118	.061	-.208	1.000
Sig. (1-tailed)	Feeling now	.	.047	.241	.184
	Air temperature (0C)	.047	.	.034	.321
	Humidity (%)	.241	.034	.	.055
	class_density	.184	.321	.055	.
N	Feeling now	60	60	60	60
	Air temperature (0C)	60	60	60	60
	Humidity (%)	60	60	60	60
	class_density	60	60	60	60

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	class_density, Air temperature (0C), Humidity (%) ^b		Enter

a. Dependent Variable: Feeling now

b. All requested variables entered.

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.255 ^a	.065	.015	.716

a. Predictors: (Constant), class_density, Air temperature (0C), Humidity (%)

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	1.996	3	.665	1.296	.285 ^b
	Residual	28.738	56	.513		
	Total	30.733	59			

a. Dependent Variable: Feeling now

b. Predictors: (Constant), class_density, Air temperature (0C), Humidity (%)

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	1.574	.744		2.115	.039
	Air temperature (0C)	.041	.025	.223	1.663	.102
	Humidity (%)	.001	.006	.013	.094	.926
	class_density	-.148	.153	-.129	-.971	.336

a. Dependent Variable: Feeling now

CROSSTABS

```

/TABLES=feeltoday myclass feelnow sweater BY weather period
/FORMAT=AVALUE TABLES
/STATISTICS=CHISQ
/CELLS=COUNT
/COUNT ROUND CELL.

```

Crosstabs

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
Feeling today * Weather condition	66	14.2%	398	85.8%	464	100.0%
Feeling today * Period of day	66	14.2%	398	85.8%	464	100.0%
In my classroom now * Weather condition	68	14.7%	396	85.3%	464	100.0%
In my classroom now * Period of day	68	14.7%	396	85.3%	464	100.0%
Feeling now * Weather condition	68	14.7%	396	85.3%	464	100.0%
Feeling now * Period of day	68	14.7%	396	85.3%	464	100.0%
Wearing sweater * Weather condition	68	14.7%	396	85.3%	464	100.0%
Wearing sweater * Period of day	68	14.7%	396	85.3%	464	100.0%

Feeling today * Weather condition

Crosstab

Count

		Weather condition					Total
		Rainy	Cloudy	Hot	Sunny	Warm	
Feeling today	Cold	6	0	0	0	0	6
	A bit Cold	2	0	0	0	0	2
	Cool	6	0	0	2	0	8
	Okay	0	6	4	10	0	20
	A bit Warm	0	6	2	0	0	8
	Warm	2	6	2	2	4	16
	Hot	0	0	4	2	0	6
Total		16	18	12	16	4	66

Chi-Square Tests

	Value	df	Asymptotic Significance (2- sided)
Pearson Chi-Square	84.104 ^a	24	.000
Likelihood Ratio	86.175	24	.000
Linear-by-Linear Association	19.377	1	.000
N of Valid Cases	66		

a. 34 cells (97.1%) have expected count less than 5. The minimum expected count is .12.

Feeling today * Period of day

Crosstab

Count

	Period of day		Total
	Morning	Afternoon	

Feeling today	Cold	2	4	6
	A bit Cold	0	2	2
	Cool	0	8	8
	Okay	8	12	20
	A bit Warm	4	4	8
	Warm	10	6	16
	Hot	2	4	6
Total		26	40	66

Chi-Square Tests

	Value	df	Asymptotic Significance (2- sided)
Pearson Chi-Square	10.643 ^a	6	.100
Likelihood Ratio	14.046	6	.029
Linear-by-Linear Association	3.769	1	.052
N of Valid Cases	66		

a. 10 cells (71.4%) have expected count less than 5. The minimum expected count is .79.

In my classroom now * Weather condition

Crosstab

Count

		Weather condition					Total
		Rainy	Cloudy	Hot	Sunny	Warm	
In my classroom now	I wish it was much colder	0	0	2	0	0	2
	I wish it was a little cold	0	2	2	4	0	8
	I wish it was a little cooler	2	8	4	6	4	24
	I'm okay	2	4	2	6	0	14
	I wish it was just warm	8	4	0	0	0	12
	I wish it was a little warm	0	2	2	0	0	4
	I wish it was a lot warmer	4	0	0	0	0	4
Total		16	20	12	16	4	68

Chi-Square Tests

	Value	df	Asymptotic Significance (2- sided)
Pearson Chi-Square	58.542 ^a	24	.000
Likelihood Ratio	59.815	24	.000
Linear-by-Linear Association	19.448	1	.000
N of Valid Cases	68		

a. 32 cells (91.4%) have expected count less than 5. The minimum expected count is .12.

In my classroom now * Period of day

Crosstab

Count

		Period of day		Total
		Morning	Afternoon	
In my classroom now	I wish it was much colder	2	0	2
	I wish it was a little cold	2	6	8
	I wish it was a little cooler	12	12	24
	I'm okay	6	8	14
	I wish it was just warm	4	8	12
	I wish it was a little warm	2	2	4
	I wish it was a lot warmer	0	4	4
Total		28	40	68

Chi-Square Tests

	Value	df	Asymptotic Significance (2- sided)
Pearson Chi-Square	7.743 ^a	6	.258
Likelihood Ratio	9.928	6	.128
Linear-by-Linear Association	2.042	1	.153
N of Valid Cases	68		

a. 9 cells (64.3%) have expected count less than 5. The minimum expected count is .82.

Feeling now * Weather condition

Crosstab

Count

		Weather condition					Total
		Rainy	Cloudy	Hot	Sunny	Warm	
Feeling now	Sleepy	6	0	0	2	0	8
	Tired	4	2	2	0	2	10
	Happy	6	18	10	14	2	50
Total		16	20	12	16	4	68

Chi-Square Tests

	Value	df	Asymptotic Significance (2- sided)
Pearson Chi-Square	24.922 ^a	8	.002
Likelihood Ratio	27.279	8	.001
Linear-by-Linear Association	7.907	1	.005
N of Valid Cases	68		

a. 11 cells (73.3%) have expected count less than 5. The minimum expected count is .47.

Feeling now * Period of day

Crosstab

Count

		Period of day		Total
		Morning	Afternoon	
Feeling now	Sleepy	0	8	8
	Tired	8	2	10
	Happy	20	30	50
Total		28	40	68

Chi-Square Tests

	Value	df	Asymptotic Significance (2-sided)
Pearson Chi-Square	11.851 ^a	2	.003
Likelihood Ratio	14.830	2	.001
Linear-by-Linear Association	.929	1	.335
N of Valid Cases	68		

a. 3 cells (50.0%) have expected count less than 5. The minimum expected count is 3.29.

Wearing sweater * Weather condition

Crosstab

Count

		Weather condition					Total
		Rainy	Cloudy	Hot	Sunny	Warm	
Wearing sweater	No	12	18	12	16	4	62
	Yes	4	2	0	0	0	6
Total		16	20	12	16	4	68

Chi-Square Tests

	Value	df	Asymptotic Significance (2-sided)
Pearson Chi-Square	8.335 ^a	4	.080
Likelihood Ratio	9.589	4	.048
Linear-by-Linear Association	7.484	1	.006
N of Valid Cases	68		

a. 6 cells (60.0%) have expected count less than 5. The minimum expected count is .35.

Wearing sweater * Period of day

Crosstab

Count

		Period of day		Total
		Morning	Afternoon	
Wearing sweater	No	28	34	62
	Yes	0	6	6
Total		28	40	68

Chi-Square Tests

	Value	df	Asymptotic Significance (2- sided)	Exact Sig. (2- sided)	Exact Sig. (1- sided)
Pearson Chi-Square	4.606 ^a	1	.032		
Continuity Correction ^b	2.931	1	.087		
Likelihood Ratio	6.771	1	.009		
Fisher's Exact Test				.039	.035
Linear-by-Linear Association	4.539	1	.033		
N of Valid Cases	68				

a. 2 cells (50.0%) have expected count less than 5. The minimum expected count is 2.47.

b. Computed only for a 2x2 table

GLM air_temp humidity BY Area floorfinish winmat roofmat wintype rooftype ceiling

```

/METHOD=SSTYPE(3)
/INTERCEPT=EXCLUDE
/EMMEANS=TABLES(OVERALL)
/EMMEANS=TABLES(Area) COMPARE ADJ(LSD)
/EMMEANS=TABLES(floorfinish) COMPARE ADJ(LSD)
/EMMEANS=TABLES(winmat) COMPARE ADJ(LSD)
/EMMEANS=TABLES(roofmat) COMPARE ADJ(LSD)
/EMMEANS=TABLES(wintype) COMPARE ADJ(LSD)
/EMMEANS=TABLES(rooftype) COMPARE ADJ(LSD)
/EMMEANS=TABLES(ceiling) COMPARE ADJ(LSD)
/CRITERIA=ALPHA(.05)
/DESIGN=Area floorfinish winmat roofmat wintype rooftype ceiling.

```

General Linear Model

Between-Subjects Factors

		Value Label	N
Class Area	1	< 20 sq. m	6
	2	20 - 29.9 sq. m	10
	3	30 - 39.9 sq. m	6
	4	40 - 49.9 sq. m	18
	5	50 - 59.9 sq. m	10
Floor finishing	1	Oversite concrete slab	12
	3	Tiled	14
	4	Granolithic	2
	5	Terrazzo	14
	6	Screeded	8
Window materials	1	Glass	32
	2	Glazed	4
	3	Metal	8
	4	others	2
	5	Wood	4
Roof materials	1	Aluminium sheets	32
	2	Ceramics	10
	3	Concrete	2
	4	Corrugated	6
Window type	1	Louvres	20
	2	Sliding	16
	3	Projector/ Pivot	8
	4	Metal casement	6
Roof type	1	Flat roof	14
	2	Gable	24
	3	Pitched	4
	6	HIP roof	8
Ceiling type	1	Asbestos	10
	2	Wooden panel	6
	3	PVC boards	16
	5	POP	2
	6	None	6
	7	Concrete	10

Multivariate Tests^a

Effect		Value	F	Hypothesis df	Error df	Sig.
Area	Pillai's Trace	.064	.891 ^b	2.000	26.000	.423
	Wilks' Lambda	.936	.891 ^b	2.000	26.000	.423

	Hotelling's Trace	.069	.891 ^b	2.000	26.000	.423
	Roy's Largest Root	.069	.891 ^b	2.000	26.000	.423
floorfinish	Pillai's Trace	.137	4.114 ^b	1.000	26.000	.053
	Wilks' Lambda	.863	4.114 ^b	1.000	26.000	.053
	Hotelling's Trace	.158	4.114 ^b	1.000	26.000	.053
	Roy's Largest Root	.158	4.114 ^b	1.000	26.000	.053
winmat	Pillai's Trace	.148	2.266 ^b	2.000	26.000	.124
	Wilks' Lambda	.852	2.266 ^b	2.000	26.000	.124
	Hotelling's Trace	.174	2.266 ^b	2.000	26.000	.124
	Roy's Largest Root	.174	2.266 ^b	2.000	26.000	.124
roofmat	Pillai's Trace	.195	6.311 ^b	1.000	26.000	.019
	Wilks' Lambda	.805	6.311 ^b	1.000	26.000	.019
	Hotelling's Trace	.243	6.311 ^b	1.000	26.000	.019
	Roy's Largest Root	.243	6.311 ^b	1.000	26.000	.019
wintype	Pillai's Trace	.329	12.757 ^b	1.000	26.000	.001
	Wilks' Lambda	.671	12.757 ^b	1.000	26.000	.001
	Hotelling's Trace	.491	12.757 ^b	1.000	26.000	.001
	Roy's Largest Root	.491	12.757 ^b	1.000	26.000	.001
rooftype	Pillai's Trace	.094	2.712 ^b	1.000	26.000	.112
	Wilks' Lambda	.906	2.712 ^b	1.000	26.000	.112
	Hotelling's Trace	.104	2.712 ^b	1.000	26.000	.112
	Roy's Largest Root	.104	2.712 ^b	1.000	26.000	.112
ceiling	Pillai's Trace	.159	2.465 ^b	2.000	26.000	.105
	Wilks' Lambda	.841	2.465 ^b	2.000	26.000	.105
	Hotelling's Trace	.190	2.465 ^b	2.000	26.000	.105
	Roy's Largest Root	.190	2.465 ^b	2.000	26.000	.105

a. Design: Area + floorfinish + winmat + roofmat + wintype + rooftype + ceiling

b. Exact statistic

Tests of Between-Subjects Effects

Source	Dependent Variable	Type III Sum of Squares	df	Mean Square	F	Sig.
Model	Air temperature (0C)	42542.007 ^a	24	1772.584	245.549	.000
	Humidity (%)	182575.890 ^b	24	7607.329	520.159	.000
Area	Air temperature (0C)	12.858	2	6.429	.891	.423
	Humidity (%)	1100.145	2	550.073	37.612	.000
floorfinish	Air temperature (0C)	29.696	1	29.696	4.114	.053
	Humidity (%)	29.803	1	29.803	2.038	.165
winmat	Air temperature (0C)	32.709	2	16.355	2.266	.124
	Humidity (%)	1739.950	2	869.975	59.485	.000
roofmat	Air temperature (0C)	45.560	1	45.560	6.311	.019

	Humidity (%)	928.264	1	928.264	63.471	.000
wintype	Air temperature (0C)	92.091	1	92.091	12.757	.001
	Humidity (%)	764.694	1	764.694	52.287	.000
rooftype	Air temperature (0C)	19.581	1	19.581	2.712	.112
	Humidity (%)	17.640	1	17.640	1.206	.282
ceiling	Air temperature (0C)	35.590	2	17.795	2.465	.105
	Humidity (%)	190.064	2	95.032	6.498	.005
Error	Air temperature (0C)	187.690	26	7.219		
	Humidity (%)	380.250	26	14.625		
Total	Air temperature (0C)	42729.697	50			
	Humidity (%)	182956.140	50			

a. R Squared = .996 (Adjusted R Squared = .992)

b. R Squared = .998 (Adjusted R Squared = .996)

```
GLM air_temp humidity BY Area floorfinish winmat roofmat wintype rooftype
ceiling WITH class_density
/METHOD=SSTYPE(3)
/INTERCEPT=EXCLUDE
/EMMEANS=TABLES(OVERALL) WITH(class_density=MEAN)
/EMMEANS=TABLES(Area) WITH(class_density=MEAN) COMPARE ADJ(LSD)
/EMMEANS=TABLES(floorfinish) WITH(class_density=MEAN) COMPARE ADJ(LSD)
/EMMEANS=TABLES(winmat) WITH(class_density=MEAN) COMPARE ADJ(LSD)
/EMMEANS=TABLES(roofmat) WITH(class_density=MEAN) COMPARE ADJ(LSD)
/EMMEANS=TABLES(wintype) WITH(class_density=MEAN) COMPARE ADJ(LSD)
/EMMEANS=TABLES(rooftype) WITH(class_density=MEAN) COMPARE ADJ(LSD)
/EMMEANS=TABLES(ceiling) WITH(class_density=MEAN) COMPARE ADJ(LSD)
/PRINT=DESCRIPTIVE
/CRITERIA=ALPHA(.05)
/DESIGN=Area floorfinish winmat roofmat wintype rooftype ceiling.
```

General Linear Model

Between-Subjects Factors

		Value Label	N
Class Area	1	< 20 sq. m	6
	2	20 - 29.9 sq. m	10
	3	30 - 39.9 sq. m	6
	4	40 - 49.9 sq. m	18
	5	50 - 59.9 sq. m	10
Floor finishing	1	Oversite concrete slab	12
	3	Tiled	14
	4	Granolithic	2

	5	Terrazzo	14
	6	Screeded	8
Window materials	1	Glass	32
	2	Glazed	4
	3	Metal	8
	4	others	2
	5	Wood	4
Roof materials	1	Aluminium sheets	32
	2	Ceramics	10
	3	Concrete	2
	4	Corrugated	6
Window type	1	Louvres	20
	2	Sliding	16
	3	Projector/ Pivot	8
	4	Metal casement	6
Roof type	1	Flat roof	14
	2	Gable	24
	3	Pitched	4
	6	HIP roof	8
Ceiling type	1	Asbestos	10
	2	Wooden panel	6
	3	PVC boards	16
	5	POP	2
	6	None	6
	7	Concrete	10



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Bryman, A. & Cramer, D. (2011). *Quantitative Data Analysis with IBM SPSS 17, 18 & 19: A Guide for Social Scientists*. New York: Routledge. (p.122)

Johnson, B. & Christensen, L. (2012). *Educational Research: Quantitative, Qualitative, and Mixed Approaches, 4th Edition*. Thousand Oaks, CA. & London: Sage Publications. (p.220)

Vogt, W.P. & Johnson, R.B. (2011). *Dictionary of Statistics & Methodology: A Nontechnical Guide for the Social Sciences*. Thousand Oaks, CA, London, & New Delhi: Sage Publications. (p.437)

Source: International standard 7730

APPENDIX F

LIST OF SCHOOLS SURVEYED

S/N	SCHOOLS	LGA	DISTRICT
1.	Olusanya Pry Sch	Agege	1
2.	Dairy FarmPry Sch	Agege	1
3.	Darocha pry school	Agege	1
4.	Sasa nur/pry sch	Alimosho	1
5.	Araromi pry sch	Orile Agege	1
6.	Woodland Nur/Pri School	Alimosho	1
7.	HoneyLand Pri School	Alimosho	1
8.	Catland Private Academy (Primary)	Alimosho	1
9.	Aestomic Children School	Ifako Ijaiye	1
10.	Normal Children School	Ifako Ijaiye	1
11.	High Grade Nur/Pri School	Alimosho	1
12.	St. Agnes Nur. And Pry Sch	kosofe	2
13.	Idi-Odo pry Sch	Shomolu	2
14.	Anthony model nur/pry sch.	kosofe	2
15.	kiniun-ifa nur/ pry sch	kosofe	2
16.	Oworonsoki nur/pry sch	kosofe	2
17.	Bishop Crowther Mem. Pri School	Shomolu	2
18.	Kabma - F Primary School	Shomolu	2
19.	CMS Grammar School	Shomolu	2
20.	CMS Snr Grammar School	Shomolu	2

21.	Araromi Nur/Pri School	Kosofe	2
22.	Ayangburen pry sch	Ikorodu	2
23.	Ayangburen pry sch	Ikorodu	2
24.	wright pry sch	Shomolu	2
25.	Anthony model nur/pry sch.	kosofe	2
26.	Oduduwa pry sch	kosofe	2
27.	National Pry School	kosofe	2
28.	St. Margaret Nur/Pri School	Ikorodu	2
29.	The PrimeLight School	Ikorodu	2
30.	Caleb International School	Kosofe	2
31.	Federal Housing Estate pry sch	Victoria Island	3
32.	Ogumbo community pry sch	Eti Osa	3
33.	Awoyaya pry sch	Eti Osa	3
34.	kuramo pry sch	Eti Osa	3
35.	Ansar-ud-deen pry sch	Eti Osa	3
36.	Tollywood Primary School	Lagos Island	3
37.	Baruwa pry sch	surulere	4
38.	Fountain School	Surulere	4
39.	Unilag Staff School Nur/Pri School	Yaba	4
40.	Unilag Staff School Nur/Pri School	Yaba	4
41.	Oluwole Nur/Pri School	Yaba	4
42.	Yaba College of Technology Staff Nur/Pr School	Yaba	4
43.	Federal College of Education (Tech.) Staff School	Yaba	4
44.	Enitan nur/pry sch	surulere	4
45.	All Saint pry sch	yaba	4
46.	Christ Church pry sch	lagos mainland	4
47.	Oluwole & Akoka nur/pry sch	lagos mainland	4
48.	ULWS,UNILAG	yaba	4
49.	Fazil Omar pry sch	Ojo	5
50.	Amuwo-odofin pry sch	Amuwo-Odofin	5
51.	Oyewole pry sch	Amuwo Odofin	5
52.	unity pry sch	Amuwo Odofin	5
53.	Local Authority nur/pry sch 2	Ojo	5
54.	Barth-Mor Nur/Pri School	Amuwo Odofin	5
55.	Army children Sch	Oshodi-Isolo	6
56.	Estate pry sch	Oshodi-Isolo	6
57.	Trendsetters Nur/Pri School	Ikeja	6
58.	Local Government Nur/Pri School	Oshodi - Isolo	6
59.	Ilupeju pry sch	Mushin	6
60.	Africa Church pry sch	Mushin	6
61.	Saint Paul Anglican nur/pry	Oshodi	6
62.	Agidingbi pry sch	Ikeja	6

APPENDIX G: ASHRAE CLO VALUES FOR INDIVIDUAL ITEMS OF CLOTHING

Men Clothing clo Women Clothing clo

Underwear

Sleeveless 0.06
 T-shirt 0.09
 Briefs 0.05
 Long underwear, upper 0.10
 Long underwear, lower 0.10
 Long underwear, lower 0.10

Shirt

Light, short sleeve 0.14
 Long sleeve 0.22
 Heavy, short sleeve 0.25
 Long sleeve 0.29

(Plus 5% for tie or turtleneck)

Vest, light 0.15
 Vest, heavy 0.29
 Trousers, light 0.26
 Trousers, heavy 0.32

Sweater

Sweater, light 0.20
 Sweater, heavy 0.37

Jacket, light 0.22

Jacket, heavy 0.49

Socks Stockings

Ankle length, thin 0.03
 Thick 0.04
 Knee high 0.10

Shoes

Sandals 0.02
 Oxfords 0.04
 Boots 0.08
 Hat and overcoat 2.00

Underwear

Girdle 0.04
 Bra and panties 0.05
 Half-slip 0.13
 Full slip 0.19
 Long underwear, upper 0.10

Blouse

Light, long sleeve 0.20
 Heavy, long sleeve 0.29
 Dress, light 0.22
 Dress, heavy 0.70

Skirt, light 0.10

Skirt, heavy 0.22

Slacks, light 0.10

Slacks, heavy 0.44

Light, sleeveless 0.17

Heavy, long sleeve 0.37

Jacket, light 0.17

Jacket, heavy 0.37

Any length 0.01

Panty hose 0.01

Shoes

Sandals 0.02
 Pumps 0.04
 Boots 0.08
 Hat and overcoat 2.00

APPENDIX H:

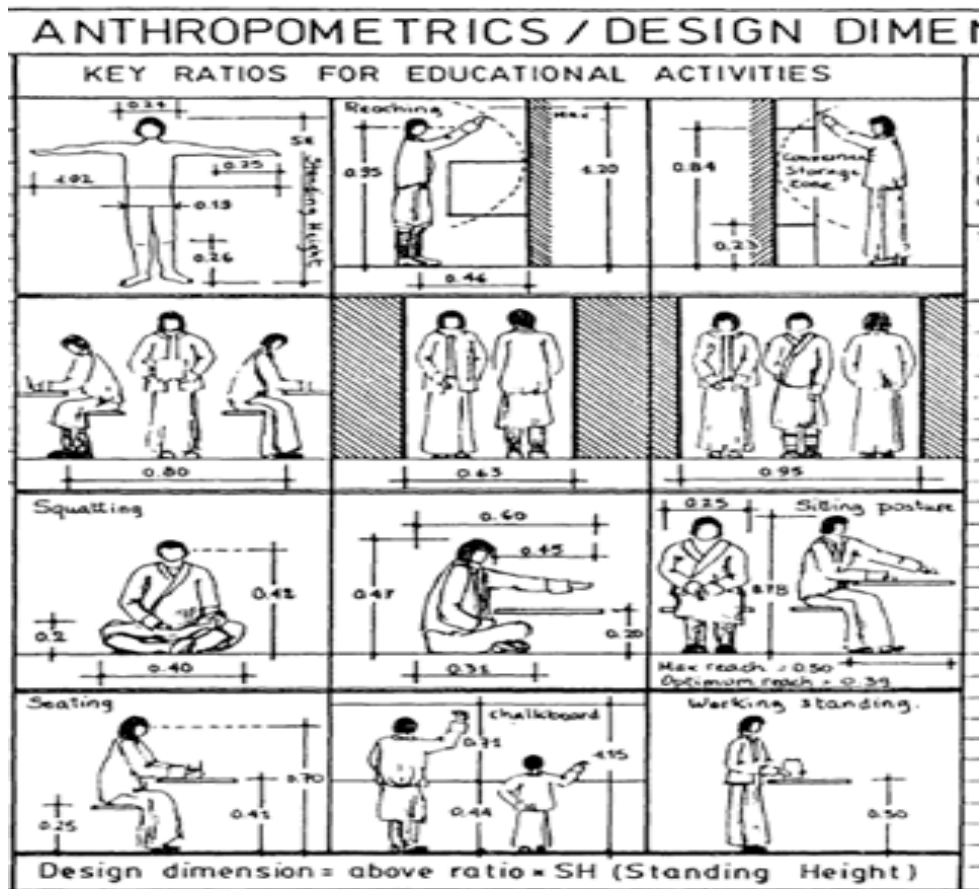
S/N	LOCAL GOVT. AREA	TOTAL NO. OF SCHOOLS	TOTAL NO. OF CLASSROOMS	NO. OF PUPILS			NO. OF TEACHERS			AVERAGE NO OF PUPILS PER		
				M	F	TOTAL	M	F	TOTAL	SCHOOL	TEACHER	CLASSROOM
PRIMARY												
1	AGEGE	50	855	9,778	10,440	20,218	126	794	920	404	22	24
2	ALimosho	67	711	19,300	19,361	38,661	83	1,000	1,083	577	36	54
3	APAPA	24	229	5,234	5,435	10,669	64	311	375	445	28	47
4	BADAGRY	53	630	11,079	11,118	22,197	219	390	609	419	36	35
5	EPE	77	730	9,392	9,617	19,009	242	398	640	247	30	26
6	ETI-OSA	34	513	6,212	6,597	12,809	100	226	326	377	39	25
7	IBEBU-LEKEI	38	326	6,108	6,535	12,643	142	132	274	333	46	39
8	IFAKO-IJAYE	23	391	5,856	6,349	12,205	46	520	566	531	22	31
9	IKEJA	30	584	5,472	5,906	11,468	57	569	626	382	18	20
10	IKORODU	57	826	18,193	17,985	36,178	218	744	962	635	38	44
11	KOSOFE	39	690	10,597	11,208	21,805	94	792	886	509	25	32
12	LITSLAND	32	561	4,777	5,362	10,139	114	362	476	317	21	18
13	LUMELAND	57	680	9,372	10,215	19,587	105	578	683	344	29	29
14	MUSHIN	77	973	10,249	11,108	21,357	152	882	1,034	277	21	22
15	OJO	49	502	11,277	11,433	23,170	97	590	677	473	34	46
16	OSHODI	54	664	10,034	11,056	21,090	98	762	860	391	25	32
17	SOMOLU	48	504	7,666	7,945	15,611	129	637	766	325	20	31
18	SURULERE	63	626	8,654	9,612	18,266	110	728	838	290	22	29
19	TOTAL	986	11,950	189,033	198,548	387,581	2,372	11,397	13,769	8,014	569	665
20	NOTE: M-Male F-Female											
21												
22												
23												
24												
25												
26												
27												
28												
29												
30	SOURCE: LAGOS STATE UNIVERSAL BASIC EDUCATION BOARD (SUBEB)											
31												

A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	TABLE 3.2												
2	NUMBER OF PUBLIC PRIMARY SCHOOLS, PUPILS AND TEACHERS BY GENDER AND LOCAL GOVERNMENT: 2010/2011												
3													
4													
5													
6													
	S/N	LOCAL GOVT. AREA	TOTAL NO. OF SCHOOLS	TOTAL NO. OF CLASSROOMS	M	F	TOTAL	M	F	TOTAL	SCHOOL	TEACHER	CLASSROOM
7	1	AGEGE	50	855	10,334	10,491	20,825	102	765	867	417	24	24
8	2	AJEROMI/ IFELOOJUN	71	537	13,598	14,961	28,559	104	595	699	402	41	53
9	3	ALIMOSHIO	74	711	21,808	21,559	43,367	81	961	1,042	586	42	61
10	4	AMUWO OOOFIN	43	418	5,840	6,733	12,573	49	328	377	292	33	30
11	5	APAPA	24	229	5,598	5,690	11,288	59	287	346	470	33	49
12	6	BADAGRY	53	630	13,305	12,961	26,266	226	407	633	496	41	42
13	7	EPE	78	730	10,479	10,183	20,662	231	383	614	265	34	28
14	8	ETI-OSA	35	513	6,250	6,944	13,194	94	218	312	377	42	26
15	9	IBEJU-LEKKI	37	326	5,966	6,546	12,512	135	123	258	338	48	38
16	10	IFAKO-DAIYE	25	391	7,736	8,046	15,782	49	546	595	631	27	40
17	11	IKEJA	30	504	5,813	6,564	12,377	61	645	706	413	20	21
18	12	IKORODU	59	826	20,756	20,471	41,227	218	794	1,012	699	41	50
19	13	KOSOFE	40	690	11,295	12,142	23,437	79	772	851	586	28	34
20	14	I/ISLAND	32	561	5,053	5,644	10,697	103	339	442	334	24	19
21	15	I/MAINLAND	57	680	8,743	9,709	18,542	93	548	641	325	29	27
22	16	MUSHIN	76	973	10,650	11,428	22,078	144	880	1,024	291	22	23
23	17	OJO	54	502	10,437	11,484	21,921	91	572	663	406	33	44
24	18	OSHOODI	52	664	13,289	13,177	26,466	99	694	793	509	33	40
25	19	SOMOLU	48	504	7,612	8,255	15,867	123	632	755	331	21	31
26	20	SURULERE	63	626	9,346	10,180	19,526	106	679	785	310	25	31
27		TOTAL	1,001	11,950	203,908	213,258	417,166	2,247	11,068	13,315	8,477	641	713
28		NOTE: M - Male											
29		F - Female											
30													
31		SOURCE: LAGOS STATE UNIVERSAL BASIC EDUCATION BOARD (SUBEB)											
32													35

Figure 6: Statistics of Public Primary Schools in Lagos State

Source: Abstract of Local Govt. Statistics (2011)

APPENDIX I:



used are based on the fact that children are an average of 2 years above the




	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Annual</u> <u>1</u>
 Average + Max Temperature e °C (°F)	32.2 (90)	33.2 (91.8)	32.9 (91.2)	32.2 (90)	30.9 (87.6)	29.3 (84.7)	28.2 (82.8)	28.3 (82.9)	28.9 (84)	30.3 (86.5)	31.4 (88.5)	31.8 (89.2)	30.8 (87.4)
 Average Temperature e °C (°F)	27.3 (81.1)	28.5 (83.2)	28.5 (83.3)	28 (82.3)	27.1 (80.7)	25.6 (78.1)	25.3 (77.5)	25.1 (77.1)	25.5 (77.9)	26.4 (79.4)	27.2 (81)	27.2 (80.9)	26.8 (80.2)
 Average - Min Temperature e °C (°F)	22.4 (72.3)	23.7 (74.7)	24.1 (75.4)	23.7 (74.7)	23.2 (73.8)	21.9 (71.4)	22.3 (72.1)	21.8 (71.2)	22.1 (71.8)	22.4 (72.3)	23 (73.4)	22.5 (72.5)	22.8 (73)

Table 2:Average Temperature Table for Lagos 2009-2015

Source: Climatic Temperature Data Retrieved@

[Http://Wwww.Lagos.Climateps.Com/Temperatures.Php](http://www.Lagos.Climateps.Com/Temperatures.Php) On 20/09/16

Rainfall and Precipitation in Lagos





	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
 Average Precipitation on mm (in)	13.2 (0.52)	40.6 (1.6)	84.3 (3.3)	146.3 (5.8)	202.4 (8)	315.5 (12.4)	243 (9.6)	121.7 (4.8)	160 (6.3)	125.1 (4.9)	39.7 (1.6)	14.8 (0.6)	1506.6 (59.3)
 Precipitation on Litres/m ² (Gallons/ft ²)	13.2 (0.32)	40.6 (1)	84.3 (2.07)	146.3 (3.59)	202.4 (4.96)	315.5 (7.74)	243 (5.96)	121.7 (2.99)	160 (3.92)	125.1 (3.07)	39.7 (0.97)	14.8 (0.36)	1506.6 (36.95)
 Number of Wet Days (probability of rain on a day)	2 (6%)	3 (11%)	7 (23%)	9 (30%)	14 (45%)	20 (67%)	15 (48%)	11 (35%)	16 (53%)	15 (48%)	7 (23%)	2 (6%)	121 (33%)
 Percentage of Sunny (Cloudy) Daylight Hours	51 (49)	52 (48)	53 (47)	49 (51)	46 (54)	31 (69)	24 (76)	25 (75)	25 (75)	41 (59)	55 (45)	57 (43)	43 (57)

Table 1: Climate Table: Rainfall or precipitation in Lagos (2009-2015)

Source: Climatic rainfall data retrieved @ climatemps.org on 20/09/16