RESEARCH PAPER ON WORKOUT TIME OF VARIOUS AGE GROUPS

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ABSTRACT

The fitness industry too has evolved rapidly from its nascent unstructured beginning in the early 90s to a comprehensive ecosystem today including consumers, providers, adjacent industries, facilitators and government. While fitness — or rather, wellness — has always been part of the Indian culture, as is apparent with the existence of village akhadas, yoga and Ayurveda practices in the country, changing lifestyles and new demands by people have outpaced traditional wisdom to a certain extent. Against, just one akhada in small towns, today there are dozens of fitness centres.

The wellness market in India registered a growth rate of 18–20 percent during 2012, to touch a market size of USD700bn. According to a Deloitte India report, fitness industry in India.

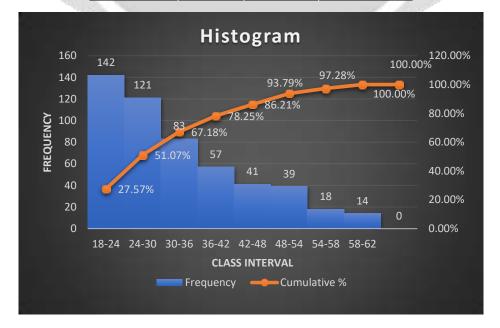
OBJECTIVE

To work out patterns of different age group people and number of hours people of various age groups work out in the gym.

SUMMARY

The data was collected from a survey conducted by me which includes responses from people of various age groups. The survey aims at knowing how a person's age affects his/her workout pattern and how much time he/she spends in the gym.

	HISTO	DGRAM	
Class Interval	Bin	Frequency	Cumulative %
18-24	23	142	27.57%
24-30	29	121	51.07%
30-36	35	83	67.18%
36-42	41	57	78.25%
42-48	47	41	86.21%
48-54	53	39	93.79%
54-58	57	18	97.28%
58-62	63	14	100.00%



DESCRIPTIVE STATISTICS

AGE		
	32.262	
Mean	14	THE AVERAGE AGE IS 32.26 YEARS
	0.5023	
Standard Error	9	
Median	29	50% OF THE DATA LIES BETWEEN 29
Mode	23	MOST PEOPLE WHO ATTEND GYM ARE OF AGE 23
Standard	11.401	ON AN AVERAGE DEVIATION BETWEEN EVERY PERSONS AGE
Deviation	04	AND ITS MEAN IS 11.40
Sample	129.98	
Variance	37	
	-	
	0.4679	
Kurtosis	6	
	0.7421	
Skewness	37	
į		THE DIFFERENCE BETWEEN THE HIGHEST AGE AND THE LOWEST
Range	42	AGE IS 42 YEARS
Minimum	18	THE LOWEST AGE IS 18
Maximum	60	THE HIGHEST AGE IS 60
Sum	16615	
Count	515	TOTAL NUMBER OF PEOPLE SURVEYED IS 515

WORKOUT		
TIME		
	1.639	
Mean	806	THE AVERAGE WORKOUT TIME IS 1.63
Standard	0.027	
Error	722	
Median	2	50% OF THE DATA LIES BETWEEN 2 HOURS
Mode	1	MAJORITY OF THE PEOPLE WORKOUT FOR 1 HOUR
Standard	0.629	ON AVERAGE DEVIATION BETWEEN EVERY WORKOUT AND
Deviation	115	ITS MEAN IS 0.62
Sample	0.395	
Variance	786	
	-	
	1.596	
Kurtosis	46	
	0.160	
Skewness	95	
		THE DIFFERENCE BETWEEN HIGHEST WORKOUT TIME AND
Range	2	LOWEST WORKOUT TIME IS 2
Minimum	1	LOWEST WORKOUT TIME IS 1 HOUR
Maximum	3	HIGHEST WORKOUT TIME IS 3 HOURS
Sum	844.5	THE TOTAL WORKOUT TIME IS 844.5 HOURS
Count	515	TOTAL NUMBER OF PEOPLE SURVVEYED IS 515

CORRELATION

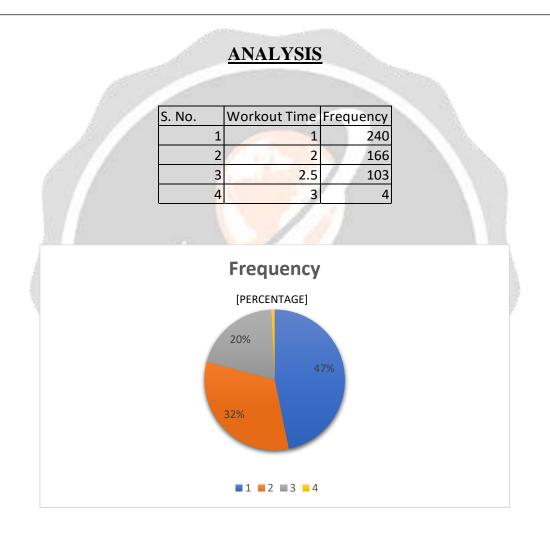
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AGE			AUL	2	1	1.	
WORKO	UT TIN	мЕ	-	0.1663	374778		1
		INTERP	RETAT	ION			
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		n between the					
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		SUMMARY C	OUTPUT				
			1				
		Regre	ession St	atistics	5		
		Multiple R			5374778		
		R Square		0.027	7680567		
		Adjusted R S	quare		5785207		1 3
		Standard Err			0951312		
		Observation			515		
					1		
ANOVA		1.10	C.Inc	51			1 1
	df	SS	MS		F	S	ignificance F
Regression	1	5.631167885	5.63116	57885	14.604388		0.000148876
Residual	513	197.8028127	0.38558	30532			
		202 4220000					
Total	514	203.4339806					
otal	514	203.4339806		ita ante			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0
Intercept	1.935993089	0.082192372	23.55441326	1.05785E-83	1.774518035	2.097468144	1.774518035	2.097468
AGE	-0.00918065	0.002402324	-3.821568854	0.000148876	-0.01390025	-0.004461043	-0.01390025	-0.004461

Y ESTI	MATE EQUATION
y = a+b	x
y=1.93	+(-0.009)x

INTERPRETATION

If age changes by -0.009 then 1 unit of number of hours of workout increases with a constant value of 1.93. So it is found that younger people have a tendency to work out for longer hours if compared to those of a higher age group. The people of age < 30 generally prefer to spend 1-2 hours in the gym whereas the people above the age 30 spend 1-1.5 hours in the gym. So a conclusion could be made that lower the age higher is the tendency to workout more in the gym.



INTERPRETATION

47% of the people workout for 1 hour.
32% of the people work out for 2 hours.
20% of the people work out for 2.5 hours.
1% of the people work out for 3 hours.
So it is deduced that majority of the people work out for 1 hour.

APPENDIX

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File	Home Inselt Page Lay	out Formulas Data Re	view View Help									@ Share	Com	ment
19	+ 1 × 2 fr													
1.54	8	C D	E.	F	G	H	1	30	К.	1	- 14	- 39	0	1.5
SR N	D. NAME	AGE GENDER	WORKOUT TIME											
1.000	1 Ishita Kapur	18 Female	1											
4	2 Smit Modi	18 Male	2.5											
6).	3 Dylan	19 Male	2.5											
	4 Nidhaan Singh Gandhi	19 Male	1											
÷.	5 Kewalram	26 Male	1											
11	6 Rushabh	18 Male	2											
ij	7 Sharaf	18 Male	1											
61.	8 Alicia Samuel	18 Female	1											
8	9 Kashish	22 Female	1											
1.	10 Armaan	18 Male	2,5											
23	11 Reuben D'Souza	17 Male	3											
10. L	12 Vinit Jain	19 Male	1											
41	13 Saksham Agrawal	18 Male	2.5											
51	14 Rochak Kapur	47 Male	2											
5	15 Rochak Kapur	55 Male	1											
P	16 Servya	22 Female	2											
0	17 Riya Pahouja	15 Female	1											
1	18 Shivenichoudhary	51 Female	2.5									1		
0	19 Hiinaa jain	35 Female	2										1	
1	20 Neerja Sachdeva	40 Female	2.5											
2	21 Praagys Shandiya	19 Male	2.5											
11	22 Serita Pahuja	59 Female	1											
6)	23 Sneha	27 Female	1											
5	24 Ved	25 Male	1											
5	25 Zeba siddiqui	44 Female	1											

ALL THE DATA IS ORIGINAL AND IS COLECTED BY ME USING GOOGLE FORMS.

