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Statistical Analysis

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Descriptive Analysis

The given data were run through SPSS where the results of descriptive statistic regarding all variables in the study were obtained as is given below. Here we are going to explore these variables results

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation	Skewness		Kurtosis	
	Statistic	Statistic	Statistic	Statistic	Statistic	Statistic	Std. Error	Statistic	Std. Error
STU_ID	23503	10001	35206	22594.79	7269.601	.002	.016	-1.197	.032
X1SEX	23503	-9	2	1.49	.527	-1.964	.016	37.802	.032
X1PAR1EDU	23503	-9	7	-.15	5.103	-.767	.016	-1.134	.032
X1SES	23503	-8.0000	2.8807	-.651491	2.3959871	-2.407	.016	4.854	.032
X1MTHID	23503	-9.00	1.76	-.7757	2.62599	-2.055	.016	3.304	.032
X1MTHUTI	23503	-9.00	1.31	-1.5462	3.20005	-1.264	.016	.018	.032
X1MTHEFF	23503	-9.00	1.62	-1.5156	3.23707	-1.253	.016	.002	.032

X1SCIID	23503	-9.00	2.15	-.7911	2.65542	-2.019	.016	3.199	.032
X1SCIUTI	23503	-9.00	1.69	-1.9693	3.43610	-.909	.016	-.861	.032
X1SCIEFF	23503	-9.00	1.83	-1.9670	3.45862	-.897	.016	-.872	.032
X1TMEFF	23503	-9.00	3.01	-2.8974	4.03916	-.486	.016	-1.592	.032
X1TMPRINC	23503	-9.00	1.48	-2.9115	4.01670	-.490	.016	-1.593	.032
X1TMRESP	23503	-9.00	1.98	-2.8764	4.03718	-.482	.016	-1.573	.032
X1TSEFF	23503	-9.00	3.17	-3.2776	4.08824	-.260	.016	-1.759	.032
X1TSPRINC	23503	-9.00	1.48	-3.3669	4.06443	-.250	.016	-1.788	.032
X1TSRESP	23503	-9.00	1.92	-3.2812	4.04530	-.279	.016	-1.755	.032
X1CONTROL	23503	1	2	1.18	.384	1.666	.016	.776	.032
X1LOCALE	23503	1	4	2.31	1.120	.385	.016	-1.220	.032
X1REGION	23503	1	4	2.60	.946	-.219	.016	-.854	.032
X2SEX	23503	1	2	1.49	.500	.038	.016	-1.999	.032

X2PAR1EDU	23503	-8	7	2.24	3.939	-1.724	.016	2.207	.032
X2PAR1EMP	23503	-8	4	2.11	3.653	-2.254	.016	3.497	.032
X2MTHID	23503	-9.00	1.82	-1.1634	3.06839	-1.609	.016	1.214	.032
X2MTHUTI	23503	-9.00	1.21	-1.2267	3.07221	-1.612	.016	1.134	.032
X2MTHEFF	23503	-9.00	1.73	-1.2714	3.16004	-1.551	.016	.920	.032
X2SCIID	23503	-9.00	1.86	-1.1956	3.10016	-1.589	.016	1.127	.032
X2SCIUTI	23503	-9.00	.10	-1.2679	2.97106	-1.920	.016	1.713	.032
X2SCIEFF	23503	-9.00	1.64	-1.3586	3.23757	-1.490	.016	.690	.032
S1HRFRIENDS	23503	-9	6	1.76	4.081	-1.602	.016	1.739	.032
S1HRTV	23503	-9	6	1.09	3.750	-1.663	.016	2.051	.032
S1HRVIDEO	23503	-9	6	.38	3.776	-1.497	.016	1.475	.032
S2MPERSON1	23503	-9	4	1.05	3.894	-1.792	.016	1.618	.032

S2MLEARN	23503	-9	4	.62	3.698	-1.873	.016	1.768	.032
S2MBORN	23503	-9	4	1.21	3.977	-1.845	.016	1.660	.032
S2MUSELIFE	23503	-9	4	.41	3.591	-1.867	.016	1.796	.032
S2MUSECLG	23503	-9	4	.14	3.478	-1.901	.016	1.840	.032
S2MUSEJOB	23503	-9	4	.28	3.580	-1.843	.016	1.699	.032
S2SPERSON1	23503	-9	4	.91	3.860	-1.802	.016	1.599	.032
S2SLEARN	23503	-9	4	.55	3.701	-1.859	.016	1.698	.032
S2SBORN	23503	-9	4	1.23	4.024	-1.836	.016	1.595	.032
S2SUSELIFE	23503	-9	4	.62	3.728	-1.834	.016	1.664	.032
S2SUSECLG	23503	-9	4	.30	3.585	-1.865	.016	1.728	.032
S2MHOMEWRK	23503	-9	7	.22	4.541	-.965	.016	-.547	.032
S2SHOMEWRK	23503	-9	7	-.47	4.780	-.651	.016	-1.189	.032
M1HIDEG	23503	-9	6	.39	5.178	-.980	.016	-.986	.032

M1MTHYRS912	23503	-9	31	5.14	10.862	.544	.016	-.346	.032
N1SCIYRS912	23503	-9	26	4.10	10.793	.460	.016	-.767	.032
N1TEACHING	23503	-9	3	-2.31	4.733	-.412	.016	-1.783	.032
N1LEARNING	23503	-9	3	-2.28	4.746	-.415	.016	-1.779	.032
N1BELIEVE	23503	-9	3	-2.13	4.878	-.409	.016	-1.780	.032
N1CLEARGOALS	23503	-9	3	-2.27	4.757	-.417	.016	-1.780	.032
N1GIVEUP	23503	-9	4	-1.39	5.491	-.399	.016	-1.786	.032
N1CARE	23503	-9	4	-1.09	5.729	-.413	.016	-1.798	.032
N1EXPECT	23503	-9	4	-1.07	5.736	-.415	.016	-1.796	.032
N1WORKHARD	23503	-9	3	-2.29	4.739	-.417	.016	-1.779	.032
N1PLANNING	23503	-9	4	-2.07	5.022	-.335	.016	-1.758	.032
A2MTHREQHS	23503	-9	6	2.95	4.996	-1.443	.016	.214	.032
C1TTEACHING	23503	-9	3	.57	2.968	-2.452	.016	4.391	.032

C1TLEARNING	23503	-9	3	.55	2.977	-2.437	.016	4.325	.032
C1TBELIEVE	23503	-9	4	.89	3.163	-2.363	.016	4.008	.032
C1TGIVEUP	23503	-9	4	1.41	3.459	-2.266	.016	3.563	.032
C1TCARE	23503	-9	4	2.07	3.654	-2.368	.016	3.836	.032
C1TEXPECT	23503	-9	4	2.14	3.674	-2.362	.016	3.829	.032
C1TWORKHARD	23503	-9	4	.72	3.053	-2.404	.016	4.214	.032
C2XTRAMENTOR	23503	-9	1	-.99	2.607	-1.578	.016	.839	.032
C2NUMAP	23503	-9	23	6.20	9.334	-.053	.016	-1.110	.032
C2NUMAPSCI	23503	-9	6	-.26	4.349	-.687	.016	-1.062	.032
C2NUMAPMATH	23503	-9	4	-.55	3.912	-.877	.016	-.934	.032
Valid N (listwise)	23503								

DESCRIPTIVES VARIABLES=STU_ID X1SEX X1PAR1EDU X1SES X1MTHID X1MTHUTI X1MTHEFF X1SCIID X1SCIUTI X1SCIEFF X1TMEFF X1TMPRINC

X1TMRESP X1TSEFF X1TSPRINC X1TSRESP X1CONTROL X1LOCALE X1REGION X2SEX X2PAR1EDU X2PAR1EMP X2MTHID X2MTHUTI X2MTHEFF X2SCIID X2SCIUTI X2SCIEFF S1HRFRIENDS S1HRTV S1HRVIDEO S2MPERSON1 S2MLEARN S2MBORN S2MUSELIFE S2MUSECLG S2MUSEJOB S2SPERSON1 S2SLEARN S2SBORN S2SUSELIFE S2SUSECLG S2MHOMEWRK S2SHOMEWRK M1HIDEG M1MTHYRS912 N1SCIYRS912 N1TEACHING N1LEARNING N1BELIEVE N1CLEARGOALS N1GIVEUP N1CARE N1EXPECT N1WORKHARD N1PLANNING A2MTHREQHS C1TTEACHING C1TLEARNING C1TBELIEVE C1TGIVEUP C1TCARE C1TEXPECT C1TWORKHARD C2XTRAMENTOR C2NUMAP C2NUMAPSCI C2NUMAPMATH

/SAVE

/STATISTICS=MEAN STDDEV MIN MAX KURTOSIS SKEWNESS.

If we look at the minimum values of the variables, except the three categorical variables (X1CONTROL X1LOCALE X1REGION), these all have the same minimum value i.e. -9 but there is variation in the maximum values and the three variables (X1CONTROL X1LOCALE X1REGION) have the same minimum value i.e. 1 and the max is 4.

The mean of the variables (X1PAR1EDU X1SES X1MTHID X1MTHUTI X1MTHEFF X1SCIID X1SCIUTI X1SCIEFF X1TMEFF X1TMPRINC X1TMRESP X1TSEFF X1TSPRINC X1TSRESP X2MTHID X2MTHUTI X2MTHEFF X2SCIID N1TEACHING N1LEARNING N1BELIEVE N1CLEARGOALS N1GIVEUP N1CARE N1EXPECT N1WORKHARD N1PLANNING C2NUMAPSCI C2NUMAPMATH) is negative and almost lie between -1 and -3.8 with the standard deviation between 2 and 5. The remaining variables mean are positive and lie between 0.14 and 6.20 with standard deviation between .38 and 10.8 which has more deviation

than the negative mean of group. Standard deviation means how much far away the observations are from their mean value. All the variables are negatively skewed as mostly all variables have skewness less than -1.

Implication of Social Change

Societies are facing with change from time to time; there is no single society where changes do not occur with passage of time but what the changes evolved are not easily seen because it is a slow process. The outcome of the social change effects on the rise and fall of the economic and political system of the country. There is direct relationship between the society and economy as the change in society directly brings changes in the economy. The consequences of social changes may be positive or negative.

Social changes can take place due to commerce and trade, Effective communication, Education, Government, Health and Hygiene, Mass Media and Natural Resources.

References

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