An Investigation of the Cross-Cultural Comparability of Social Skills

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Introduction

In recent years, social skills training has been conducted in countless schools and similar institutions in the attempt to improve communication ability not only for children who have learning disabilities or developmental disabilities, but also for children without disabilities (e.g., Sato & Sato, 2006; Shimada & Iida, 2006; Watanabe & Yamamoto, 2003). Also, in the last few years, the inclusion of the measurement of social skills in the PISA (Programme for International Student Assessment) test administered by the OECD (Organisation for Economic Co-operation and Development) have come under review (Schleicher, 2003), and interest in social skills has been increasing (Sato & Sato, 2006).

The PISA test, which has generated so-called "PISA Shock" not only in Germany but in Japan as well (e.g., Ishii, 2007), up until the present day, has conducted an international comparison of reading literacy, mathematical literacy, science literacy, problem-solving ability, and so on. The possibility of conducting an evaluation of social skills in the same fashion has been considered, but social skills are heavily influenced by the cultural context, and it is believed that since the standards for evaluation of social skills are set within the frameworks of given societies, any cross-cultural comparison beyond these frameworks is essentially impossible (Aikawa, 2000, 2007).

However, if these differing social frameworks share some commonalities, comparison of those commonalities is possible. More specifically, it is believed that if, within this category of social skills, some subscale skills can be considered common between different societies, then cross-cultural comparison is possible across differing societies. Thus, this study undertakes to consider based on survey data whether the cross-cultural comparison of social skills is possible, and if so, then with regard to what sort of subscale skills this is possible. In practical terms, data were collected in different cities using an identical scale, and then it was investigated whether common subscale skills could be configured or not. If common subscale skills are indeed able to be constituted, then cross-cultural comparison of these skills between different societies is believed possible.

Since there are various definitions for social skills (e.g., Ishii, 2006), and since these vary depending on the context and the purpose of each study, no consistent definition of social skills currently exists among researchers. This study defines social skills as "those behaviors that help students adjust to their school life, maintaining good relationships with their peers and teachers, without compromising their individuality." This definition is the one used for development of the Social Skill Inventory for Middle School Students, SSI-M (Sugimura, Ishii, Zhang, & Watanabe, 2007) utilized in this study.

SSI-M was developed as a scale for measuring the social skills of middle school students, and its high degree of reliability and validity was confirmed by Sugimura et al. (2007). To the knowledge of the authors, this is the only standardized scale used within Japan as a scale for measuring the social skills of children.

There are also other scales for measuring the social skills of children, such as the scale for school life skills (for junior high school students) developed by Iida and Ishikuma (2002). This scale focuses on skills required by junior high school students in coping with developmental issues and educational issues, and is intended to prevent problems such as inability to adjust to school life. Also, the scale measuring the social skills of elementary school students developed by Shimada, Togasaki, Okayasu, and

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Sakano (1996) was created for the purposes of investigating the connection between the acquisition of social skills in children and the alleviation of school-related stress. The scale for measuring the social skills of junior high school students developed by Togasaki, Okayasu, and Sakano (1997) was also created for the purposes of investigating connections with the alleviation of school-related stress. However, these studies did not have large sample sizes, and they did not achieve to standardize the scale scores.

On the other hand, standardized documentation for the Kiss-18 (Kikuchi, 1988), which is widely used as a scale for social skills, is provided by Kikuchi (2007). However, this was developed for use with adults and was not created for the purpose of measuring the social skills of children.

For this study, since there is an abundance of social skills training conducted in schools, and also since the PISA test targets children of 15 years of age, it was decided to use the definition and scale from Sugimura et al. (2007) in conducting research investigating the crosscultural comparability of the social skills of children.

Method

Scale

As explained above, the Social Skill Inventory for Middle School Students (SSI-M) scale was used. This scale has been confirmed to possess high reliability and validity as a scale for measuring the social skills of middle school students, and is a scale for which standardization has been carried out within Japan. SSI-M is a scale for measuring social skills that is composed of 5 subscale skills: relationship-building skills, basic manners skills, skills in consideration toward others, assertiveness skills, and emotion regulation skills. Each subscale includes 10 items, for a total of 50 items. It features two response methods; "rather true (1)" and "rather false (0)."

The definition of each subscale skill is as follows. Furthermore, each practical item on the scale is indicated on Table 3 and elsewhere.

Relationship-building skills: Skills required for establishing relationships with new friends.

Basic manners skills: Skills for observing fundamental manners.

Skills in consideration toward others: Skills for behaving in consideration toward others within friend relationships and in groups.

Assertiveness skills: Skills for expressing one's own thoughts and feelings in a non-aggressive fashion, without infringing on the rights of other pupils or teachers. Emotion regulation skills: Skills for regulation or control of feelings.

Selection of Survey Cities

PISA is principally administered by the OECD, and it is centered around European and American survey institutions such as ETS (USA), ACER (Australia), Cito (Netherlands). Accordingly, it is believed that the question items of PISA reflect Western rhetoric in their contents (Horie, 2007).

However, if we accept that social skills have their roots in societies, which is to say in cultures, as stated by Aikawa (2007), then we should not suddenly apply to Western countries a scale for measuring social skills that was developed in Japan and then compare the results. It is believed that instead of this, conducting surveys first in Asia, which represents a comparatively closer cultural sphere, and then undertaking comparison with Japan will be more efficient from the viewpoint of cross-cultural comparison of social skills. Asian cities were selected for survey in this study in order to reflect a cultural sphere relatively closer to Japan. The Chinese cities of Shanghai and Shenzhen, as well as Yangon in Myanmar (Burma), were selected.

Shanghai and Shenzhen are located within the cultural sphere of Chinese character and cities where modernization is well underway. Therefore, they were considered appropriate for comparison with Tokyo, where the Japanese survey was conducted. Yangon was the capital of Myanmar until 2006, and it remains the largest city in Myanmar. Other reasons for its inclusion among the survey cities is its predominance of Buddhism and friendly stance towards Japan, as well as the inroads made by many Japanese corporations in recent years.

Translation

As explained in the previous section, Shanghai and Shenzhen (China), and Yangon (Myanmar) were selected as target cities in which to conduct testing of junior high school students. The SSI-M thus required translation into Chinese and Burmese languages.

The services of a professional specialist were sought

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for the Chinese translation. The appropriateness of the translation was subsequently verified by a Chinese researcher with over 10 years residence in Japan and with experience of writing academic papers, books and other documents in Japanese. Additionally, before commencement of the survey, further verification and revision of survey items was performed in Shenzhen by a Chinese researcher well-versed in Japanese, as well as a local junior high school student, in order to confirm that there were no items with unclear meaning or using expressions unfamiliar to local junior high school students.

For the Burmese translation, at first, these were translated into English by a researcher who developed the SSI-M items and has more than 3 years of experience as an international student in the USA, in conjunction with a Japanese national with a long history of residence in New York and experience working in an embassy of a western country. This English translation and the Japanese original were then used as a base for a translation into the Burmese language, which was performed by a Burmese researcher resident in Yangon. This researcher previously worked as a local high school English teacher and had also studied in Japan for nearly 7 years, acquiring a doctoral degree there. The translated Burmese document was then checked by a Burmese student who has two experiences studying in Japan, in order to verify that there was no discrepancy in content with the English and Japanese versions.

Conducting Survey

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The survey period was April 2007 for Shanghai, March 2007 for Shenzhen, and February 2007 for Yangon. Also, for the Japanese data, the data used was from the period of scale development, which was conducted in Tokyo between September and November 2006.

With regard to conduct of the Shanghai, Shenzhen, and Yangon surveys, local junior high school teachers were approached on our behalf by local researchers engaged at local universities and requested to conduct these surveys targeting junior high school students. In order that issues such as locality or parental socio-economic status did not bias the results, these surveys were conducted at multiple schools wherever possible.

Surveys were conducted at each school using the time between classes. Local university students carried out data entry tasks from the collected response sheets under supervision of the local researchers.

Result

Subjects

Table 1 shows the number of subjects in each city that returned valid responses without missing values. The number of subjects was 250 in Shanghai, 276 in Shenzhen, 1901 in Tokyo, and 342 in Yangon, meaning that the cooperation of roughly 300 persons was obtained in each of the 3 non-Japanese cities.

The number of schools selected was 3 in Shanghai, 1

Table 1 Sample size

		Total			
	Shanghai	Shenzhen	Tokyo	Yangon	
Grade					4
6	_	_	_	101	101
7	121	84	1004	109	1318
8	122	90	695	122	1029
9	_	93	188	_	281
unknown	7	9	14	10	40
Sex	143	147	1000	194	1484
male					
female	100	120	887	138	1245
unknown	7	9	14	10	40
Total	250	276	1901	342	2769

in Shenzhen, 9 in Tokyo, and 5 in Yangon. In Shanghai, the 3 schools were selected to represent higher, middle, and lower parental socio-economic status. In Shenzhen, the junior high school affiliated with a university, which did not necessarily indicate prominent academic ability, but rather that the parental socio-economic status of students was distributed in the mid to higher levels. The 9 Tokyo schools were all public junior high schools, and the selection included schools recognized as the best in their districts, as well as middle-ranked schools. In Yangon, 2 schools from the central urban district, 2 schools from the peripheral urban district, and 1 school from a suburban district were selected.

With regard to school grade, students in the first year of junior high school in Shanghai, Shenzhen, and Tokyo are in their 7th year of education, but since the school age in Burma is one year earlier, students in the first year of junior high school there were calculated as being in their 6th year of education. In Shanghai and Tokyo, due to the timing of the survey, it proved difficult to obtain data on third-year junior high school students, and so subjects from this school year are either fewer or non-existent.

A comparison of subjects by sex indicates that male students were slightly more numerous than female students in each city examined.

Reliability

Table 2 shows the alpha coefficient value for each subscale skill. Looking at Table 2, it can be seen that the alpha coefficient value for each subscale skill was between 0.55 and 0.79 in Shanghai, between 0.57 and 0.80 in Shenzhen, between 0.72 and 0.87 in Tokyo, and between 0.36 and 0.64 in Yangon. In Yangon, values below 0.5 (indicating that the error variance was greater than the variance of true scores) were observed for the 3 subscale

skills of basic manners, consideration toward others, and assertiveness

Examining the size of the alpha coefficient values for each subscale skill in the 3 non-Japanese cities, it can be seen that relationship-building skills were the highest (0.79 in Shanghai, 0.80 in Shenzhen, 0.64 in Yangon: same order follows below), followed by consideration toward others (0.68, 0.65, 0.47), and then emotion regulation (0.65, 0.66, 0.56).

Factor Analysis

In order to examine whether latent factors identical to Tokyo could be assumed for each city in regards to the behind the question items, confirmatory factor analysis was first performed for each city, targeting a factor loading matrix of the factor analysis results using the Tokyo data. However, for every city, it was judged impossible to assume that structure of factors was completely identical to Tokyo.

Thus, explanatory factor analysis was performed for each city, and the results compared. Initial common values were attributed by the max method, and then factor analysis conducted using the least squares solution and the promax rotation method. Tables 3 to 6 show the analysis results for each city. However, the sequencing of question items follows the results for Tokyo.

Table 3 shows the results for Shanghai. In Shanghai, the question items for emotion regulation skills grouped to form a single factor (F4). The "consideration toward others" items also came close to grouping into a single factor, and several items from basic manners and relationship-building also weighed heavily on this factor (F1). 6 items within relationship-building and 5 items within assertiveness also grouped together to form a single factor (F2). Within the basic manners items, the remaining items (with low relation to the "consideration toward

Table 2 Alpha coefficient of scales

	Shanghai	Shenzhen	Tokyo	Yangon
relationship-building	.79	.80	.87	.64
basic manner	.59	.57	.74	.46
consideration toward others	.68	.65	.76	.47
assertion	.55	.63	.76	.36
emotion regulation	.65	.66	.72	.56
Total	.80	.83	.86	.70

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Table 3 Result of factor analysis in Shanghai

Item	Factor1	Factor2	Factor3	Factor4	Factor5	Communality
relationship-building						
12. I am good at icebreaking and mingling with strangers.	.172	.577	075	.157	.133	.484
20. I can talk to strangers without hesitating.	.021	.666	111	.156	.263	.613
50. I am not good at talking to stranger(s).	.062	.454	102	.009	.646	.705
07. I don't have a problem making new friends.	.133	,520	.086	.046	.234	.458
39. I say hello to strangers.	-,182	.553	.230	.300	.164	.635
29. I have no problem making new friends.	.514	.519	.008	.071	.051	.662
04. It takes time to open up myself to others	.092	.120	.122	.036	.650	.516
48. It's difficult for me to make new friends in new situations.	.137	.012	.233	013	.652	.526
09. I tend to give a good first impression.	.397	.278	003	.179	.160	.399
16. I am not good at carrying a conversation with a stranger.	.384	.286	181	.214	.249	.430
basic manner						
02. I say grace or "thank you" before meals.	.049	121	.375	.151	.044	.166
43. I say "thank you" after meals.	023	.108	.357	.065	020	.169
35. I say thank you when someone is nice to me.	.625	.004	.325	174	.051	.610
05. I sometimes don't apologize when I bump to someone.	.186	075	.341	048	.161	.197
37. I say "excuse me" or "sorry" when bumping to someone.	.719	009	.333	151	267	.791
23. I sometimes don't say "thank you" when I should.	.753	253	.091	081	.303	.723
28. I greet my friends, classmates and teachers at school in the morning.	.245	049	.588	.181	.156	.561
21. I choose sometimes not to respond to my teacher(s) and friend(s).	.640	044	088	.000	.302	.512
45. I say goodbye to my friends and teachers when I leave school.	017	045	.654	005	.150	.419
06. I knock the door before I enter teachers rooms,	057	138	.743	.040	.282	.547
consideration toward others						
34. I am considerate of others.	,468	.020	.238	.265	308	.517
18. I make sure I am understood when I talk.	.204	.048	.419	.233	119	.380
11. I try to make my conversation interesting.	.542	024	074	.217	195	.358
01. I am a patient listener.	.367	.162	.725	160	141	.918
32. In a group, I make sure people are having a good time.	.667	.233	005	.161	.076	.639
36. I listen to others, instead of just talking about myself.	.813	.007	.114	176	052	.710
19. I tend to do things without thinking of what others feel.	.819	073	044	045	.129	.672
22. I am a good team worker.	.425	.270	.205	.083	.082	.463
31. I make sure that people have opportunities to speak in a discussion.	.265	.284	.141	200	.243	.306
27. I keep my word with my friends.	.700	025	-,108	.322	307	.643
assertion		DROWNING DAGING OF WASHINGTON				
42. I say "no" when it is "no."	148	.560	.048	339	069	.362
40. I tend to put up with my friend(s).	062	.037	165	304	.041	.134
03. I can't say "no" when people ask me of things	336	024	.167	.122	.496	.327
47. I can express my opinion even it opposes to my teachers.	444	.495	.372	.036	.140	.563
25. I don't hesitate to be assertive.	.077	.662	107	.023	029	.425
17. I confront my friend(s) when I get offended.	107	.623	115	244	.075	.367
46. I tend to keep my feelings and thoughts to myself.	028	.246	046	.050	.447	.295
38. I have no problem expressing my opposition.	.130	.691	.044	147	073	.500
13. I can say "no" to my friend(s).	106	027	.025	.058	.016	.012
14. I ask teachers questions when I don't understand.	134	.156	.391	.097	034	.216
emotion regulation			,			
08. I tend to show my emotions even when I try not to	.056	005	102	.442	.161	.248
10. When I get upset, I tend to take it out on others.	.398	321	.116	.402	.053	.404
49. I don't show my emotions on my face.	031	021	.102	.488	.036	.250
24. I can behave myself even when I am upset.	079	.009	.145	.657	004	.456
15. When I get upset, I tend to do things that I'll regret later.	370	246	.059	.371	.004	.259
41. I keep myself calm even when I am nervous.	171	.226	.161	.586	037	.492
44. I tend to remain out of focus once getting distracted.	-,184	151	.256	.388	.293	.278
30. I am calm even when I am feeling rushed.	059	.248	.074	.679	240	.627
33. I tend to get panicked when I get scared.	.049	112	155	.542	.281	.411
26. I sometimes reveal someone else's secret by accident.	.232	199	095	,463	.198	.342
Variance explained by each factor eliminating other factors	5.958	3.953	2.974	3,405	2.944	
Inter factor correlation	Factor1	Factor2	Factor3	Factor4	Factor5	
Factor1	1					
Factor2	.137	1				
Factor3	.290	.299	1			
Factor4	.150	.249	.084	1		
Factor5	.107	.127	036	.109	1	

Table 4 Result of factor analysis in Shenzhen

relationship-building 12. I am good at icebreaking and mingling with strangers. 20. I can talk to strangers without hesitating. 312	.610
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basic manner 02. I say grace or "thank you" before meals. 0.080126 .049 .192 .470 43. I say "thank you" after meals. 0.017 .228 .073020 .183 35. I say thank you when someone is nice to me. 167 .877058 .037 .275 05. I sometimes don't apologize when I bump to someone. 118 .685 .152115 .128 37. I say "excuse me" or "sorry" when bumping to someone. 037 .942 .014112 .018 23. I sometimes don't say "thank you" when I should. 091 .642 .121 .049 .017 28. I greet my friends, classmates and teachers at school in the morning. 106 .290 .190004 .071 21. I choose sometimes not to respond to my teacher(s) and friend(s). 45. I say goodbye to my friends and teachers when I leave school. 313 .416 .010110016 66. I knock the door before I enter teachers rooms. 236 .434 .346 .084 .047 consideration toward others 44. I am considerate of others. 34. I am considerate of others. 34. I make sure I am understood when I talk. 1012 .188 .094 .169 .584 11. I try to make my conversation interesting. 1126 .146181 .160 .516 11. I am a patient listener. 1128 .237 .023 .155 .384 32. In a group, I make sure people are having a good time. 276 .385 .079 .057 .415 36. I listen to others, instead of just talking about myself.	.422
02. I say grace or "thank you" before meals. .080 126 .049 .192 .470 43. I say "thank you" after meals. .017 .228 .073 020 .183 35. I say thank you when someone is nice to me. 167 .877 058 .037 .275 05. I sometimes don't apologize when I bump to someone. 118 .685 .152 115 .128 37. I say "excuse me" or "sorry" when bumping to someone. 037 .942 014 112 018 23. I sometimes don't say "thank you" when I should. 091 .642 .121 .049 .017 28. I greet my friends, classmates and teachers at school in the morning. .056 .290 .190 004 .071 21. I choose sometimes not to respond to my teacher(s) and friend(s). .185 .776 .065 .093 398 45. I say goodbye to my friends and teachers when I leave school. .313 .416 .010 110 -016 06. I knock the door before I enter teachers rooms. 236 .434 .346 .084 .047 consideration toward others 34. I am considerate of others. .065	.510
43. I say "thank you" after meals. 35. I say thank you when someone is nice to me. -167 877 -058 .037 .275 05. I sometimes don't apologize when I bump to someone. -118 685 .152 -115 .128 37. I say "excuse me" or "sorry" when bumping to someone. -037 942 -014 -112 -018 28. I sometimes don't say "thank you" when I should. -091 642 .121 .049 .017 28. I greet my friends, classmates and teachers at school in the morning. 196 290 .190 -004 .071 29. I greet my friends, classmates and teachers at school in the morning. 196 290 .190 -004 .071 29. I greet my friends and teachers when I leave school. 290 .190 -004 .071 290 .190 -004 .071 290 .190 -004 .071 290 .190 -004 .071 290 .190 -004 .071 290 .190 -004 .071 290 .190 -004 .071 290 .190 -004 .071 290 .190 -004 .071 290 .190 -004 .071 290 .190 -004 .071 290 .190 -004 .071 290 .190 -004 .071 290 .190 -004 .071 290 .190 -004 .071 290 .190 -004 .071 290 .190 -004 .071 290 .190 -004 .071 290 .190 -004 .071 290 .190 -004 .071 290 .190 -004 .071 290 .190 -004 .071 290 .190 -004 .071 290 .190 -004 .071 290 .190 -004 .071 290 .190 -004 .071 290 .190 -004 .071 290 .190 -004 .071 290 .190 -004 .071 290 .190 -004 .071 290 .190 -004 .071 290 .190 -004 .071 290 .190 -004 .071 290 .190 -004 .071 290 .190 -004 .071 290 .190 -004 .071 290 .190 -004 .071 290 .190 -004 .071 290 .190 -004 .071 290 .190 -004 .071 290 .190 -004 .071 290 .190 -004 .071 290 .190 -004 .071 290 .190 -004 .071 290 .190 -004 .071 290 .190 -004 .071 290 .190 -004 .071 290 .190 -004 .071 290 .190 -004 .071 290 .190 -004 .071 290 .190 .090 .090 290 .190 .090 290 .190 .090 290 .190 .090 290 .190 .090 290 .190 .090 290 .190 .090 290 .190 .090 290 .190 .090 290 .190 .090 290 .190 .090 290 .190 .090 290 .190 .090 290 .190 .090 290 .190 .090 290 .190 .090 290 .190 .090 290 .190 .090 290 .190 .090 290 .190 .090 290 .190 .090 290 .190 .090 290 .190 .090 290 .190 .090 290 .190 .090 290 .190 .090 290 .190 .090 290 .190 .090 290 .190 .	
35. I say thank you when someone is nice to me. 167 .977 058 .037 .275 05. I sometimes don't apologize when I bump to someone. 118 .685 .152 115 .128 37. I say "excuse me" or "sorry" when bumping to someone. 037 .942 014 112 018 23. I sometimes don't say "thank you" when I should. 091 .642 .121 .049 .017 28. I greet my friends, classmates and teachers at school in the morning. .056 .290 .190 004 .071 21. I choose sometimes not to respond to my teacher(s) and friend(s). .185 .776 .065 .093 398 45. I say goodbye to my friends and teachers when I leave school. .313 .416 .010 110 016 66. I knock the door before I enter teachers rooms. 236 .434 .346 .084 .047 consideration toward others 236 .302 .046 .222 .515 8. I make sure I am understood when I talk. .012 .188 .094 .169 .584 11. I try to make my conversation interesting. .126 .146 181 <td>.268</td>	.268
05. I sometimes don't apologize when I bump to someone. 118 .685 .152 115 .128 37. I say "excuse me" or "sorry" when bumping to someone. 037 .942 014 112 018 23. I sometimes don't say "thank you" when I should. 091 .642 .121 .049 .017 28. I greet my friends, classmates and teachers at school in the morning. .056 .290 .190 004 .071 21. I choose sometimes not to respond to my teacher(s) and friend(s). .185 .776 .065 .093 398 45. I say goodbye to my friends and teachers when I leave school. .313 .416 .010 110 016 06. I knock the door before I enter teachers rooms. 236 .434 .346 .084 .047 consideration toward others 236 .302 .046 .222 .515 34. I am considerate of others. .065 .302 .046 .222 .515 38. I make sure I am understood when I talk. .012 .188 .094 .169 .584 11. I try to make my conversation interesting. .126 .146 181 .160<	.106
37. I say "excuse me" or "sorry" when bumping to someone. 037 ,942 014 112 018 23. I sometimes don't say "thank you" when I should. 091 .642 .121 .049 .017 28. I greet my friends, classmates and teachers at school in the morning. .066 .290 .190 004 .071 21. I choose sometimes not to respond to my teacher(s) and friend(s). .185 .776 .065 .093 398 45. I say goodbye to my friends and teachers when I leave school. .313 .416 .010 110 016 06. I knock the door before I enter teachers rooms. 236 .434 .346 .084 .047 consideration toward others 236 .302 .046 .222 .515 34. I am considerate of others. .065 .302 .046 .222 .515 38. I make sure I am understood when I talk. .012 .188 .094 .169 .584 11. I try to make my conversation interesting. .126 .146 181 .160 .516 01. I am a patient listener. .168 .237 .023 .155 .384	.843
23. I sometimes don't say "thank you" when I should. 091 .642 .121 .049 .017 28. I greet my friends, classmates and teachers at school in the morning. .056 .290 .190 004 .071 21. I choose sometimes not to respond to my teacher(s) and friend(s). .185 .776 .065 .093 398 45. I say goodbye to my friends and teachers when I leave school. .313 .416 .010 110 016 06. I knock the door before I enter teachers rooms. 236 .434 .346 .084 .047 consideration toward others 236 .302 .046 .222 .515 34. I am considerate of others. .065 .302 .046 .222 .515 18. I make sure I am understood when I talk. .012 .188 .094 .169 .584 11. I try to make my conversation interesting. .126 .146 181 .160 .516 01. I am a patient listener. .168 .237 .023 .155 .384 32. In a group, I make sure people are having a good time. .276 .385 .079 .057 .415 <td>.459</td>	.459
28. I greet my friends, classmates and teachers at school in the morning. .056 .290 .190 004 .071 21. I choose sometimes not to respond to my teacher(s) and friend(s). .185 .776 .065 .093 398 45. I say goodbye to my friends and teachers when I leave school. .313 .416 .010 110 -016 06. I knock the door before I enter teachers rooms. 236 .434 .346 .084 .047 consideration toward others .065 .302 .046 .222 .515 18. I make sure I am understood when I talk. .012 .188 .094 .169 .584 11. I try to make my conversation interesting. .126 .146 181 .160 .516 01. I am a patient listener. .168 .237 .023 .155 .384 32. In a group, I make sure people are having a good time. .276 .385 .079 .067 .415 36. I listen to others, instead of just talking about myself. .457 .594 150 229 .327	.844
21. I choose sometimes not to respond to my teacher(s) and friend(s). .185 .776 .065 .093 398 45. I say goodbye to my friends and teachers when I leave school. .313 .416 .010 110 016 06. I knock the door before I enter teachers rooms. 236 .434 .346 .084 .047 consideration toward others .065 .302 .046 .222 .515 18. I make sure I am understood when I talk. .012 .188 .094 .169 .584 11. I try to make my conversation interesting. .126 .146 181 .160 .516 01. I am a patient listener. .168 .237 .023 .155 .384 32. In a group, I make sure people are having a good time. .276 .385 .079 .067 .415 36. I listen to others, instead of just talking about myself. .457 .594 150 229 .327	.402
45. I say goodbye to my friends and teachers when I leave school. 66. I knock the door before I enter teachers rooms. 7.236 434 346 0.010 -110 -016 0.01 knock the door before I enter teachers rooms. -236 434 346 348 0.04 0.047 -222 515 18. I make sure I am understood when I talk. 0.012 1.188 0.094 1.169 5.84 11. I try to make my conversation interesting. 1.126 1.146 1.140 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151 1.151	.149
06. I knock the door before I enter teachers rooms. 236 .434 .346 .084 .047 consideration toward others 34. I am considerate of others. .065 .302 .046 .222 .515 18. I make sure I am understood when I talk. .012 .188 .094 .169 .584 11. I try to make my conversation interesting. .126 .146 181 .160 .516 01. I am a patient listener. .168 .237 .023 .155 .384 32. In a group, I make sure people are having a good time. .276 .385 .079 .057 .415 36. I listen to others, instead of just talking about myself. .457 .594 150 229 .327	.821
consideration toward others 34. I am considerate of others. .065 .302 .046 .222 .515 18. I make sure I am understood when I talk. .012 .188 .094 .169 .584 11. I try to make my conversation interesting. .126 .146 181 .160 .516 01. I am a patient listener. .168 .237 .023 .155 .384 32. In a group, I make sure people are having a good time. .276 .385 .079 .057 .415 36. I listen to others, instead of just talking about myself. .457 .594 150 229 .327	.336
34. I am considerate of others. .065 .302 .046 .222 .515 18. I make sure I am understood when I talk. .012 .188 .094 .169 .584 11. I try to make my conversation interesting. .126 .146 181 .160 .516 01. I am a patient listener. .168 .237 .023 .155 .384 32. In a group, I make sure people are having a good time. .276 .385 .079 .057 .415 36. I listen to others, instead of just talking about myself. .457 .594 150 229 .327	.262
18. I make sure I am understood when I talk. .012 .188 .094 .169 .584 11. I try to make my conversation interesting. .126 .146 181 .160 .516 01. I am a patient listener. .168 .237 .023 .155 .384 32. In a group, I make sure people are having a good time. .276 .385 .079 .057 .415 36. I listen to others, instead of just talking about myself. .457 .594 150 229 .327	100
11. I try to make my conversation interesting. .126 .146 181 .160 .516 01. I am a patient listener. .168 .237 .023 .155 .384 32. In a group, I make sure people are having a good time. .276 .385 .079 .057 .415 36. I listen to others, instead of just talking about myself. .457 .594 150 229 .327	.488
01. I am a patient listener. .168 .237 .023 .155 .384 32. In a group, I make sure people are having a good time. .276 .385 .079 .057 .415 36. I listen to others, instead of just talking about myself. .457 .594 150 229 .327	.455
32. In a group, I make sure people are having a good time. .276 .385 .079 .057 .415 36. I listen to others, instead of just talking about myself. .457 .594 150 229 .327	.368
36. I listen to others, instead of just talking about myself457 .594150229 .327	.341
	.585
19. I tend to do things without thinking of what others feel128 .696157 .512063	.926
Annual service of the	.843
22. I am a good team worker	.528
31. I make sure that people have opportunities to speak in a discussion. 364 374 .021095 .088	.381
27. I keep my word with my friends. .131 .070 140 .376 .166	.199
assertion or our our our	105
42. I say "no" when it is "no." -070 .027 .662 -207 .205	.485
40. I tend to put up with my friend(s)	.265
03. I can't say "no" when people ask me of things .113042 .483 .087317	.363
47. I can express my opinion even it opposes to my teachers	.428
25, I don't hesitate to be assertive	.564
17. I confront my friend(s) when I get offended. 051 .089 .668046114	.455
46. I tend to keep my feelings and thoughts to myself005 .079 .427 .011009	.185
38. I have no problem expressing my opposition	.562
13. I can say "no" to my friend(s)070 .054 .098207110	.052
14. I ask teachers questions when I don't understand011 .291 .449106079	.244
emotion regulation	440
08. I tend to show my emotions even when I try not to012 .023 .200 .515294	.443
10. When I get upset, I tend to take it out on others	.653
49. I don't show my emotions on my face	.260
24. I can behave myself even when I am upset143014 .119 .679 .248	.509
15. When I get upset, I tend to do things that I'll regret later238147 378 .140 .151	.221
41. I keep myself calm even when I am nervous003 .007 .151 .439 .229	.281
44. I tend to remain out of focus once getting distracted. .061 .039 .326 .335 .014	.285
30. I am calm even when I am feeling rushed	.399
	.278
	.4/6
Inter factor correlation Factor1 Factor2 Factor3 Factor4 Factor5 Factor1 1	
Factor4 .102 .167 .173 1 Factor5 .215 .121 .125101 1	

Table 5 Result of factor analysis in Tokyo

relationship building 12. I am good at interval								
12 1 am good at clorbrecking and mingling with strangers.	Item	Factor1	Factor2	Factor3	Factor4	Factor5	Communality	
20. I can als to strangers without hestisting. 897	relationship-building	**************************************						
50. 1 am not good at talking to stranger(s). 5897 0.02 -1.28 005 6.099 021 7.78 1.04 1.04 1.04 1.05 1.05 5.099 0.090 021 7.78 1.04 1.04 1.04 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.	12. I am good at icebreaking and mingling with strangers.	.976	063	045	080	032	.841	
10. 1 char have a problem making new friends \$80	20. I can talk to strangers without hesitating.	.897	046	.061			.784	
28] Is say helle to estrangers.	50. I am not good at talking to stranger(s).	.897	.012	128	035	.039	.724	
28. Interno problem making new friends	07. I don't have a problem making new friends.	.880	056	.059	040	021	.759	
14 In India Start Internation of person unywelf to others 1970 1010 -128 504 144 15 15 15 16 16 16 17 16 17 16 18 18 16 16 16 17 18 18 18 16 16 16 18 18	39. I say hello to strangers.	.745	.116	027	.075		.649	
18. It will fluid for me to make new friends in new situations.	29. I have no problem making new friends.	,726	018	.162	004	.037	.628	
10. Iran to gove a good first impression. 388 0.46 1.40 0.60 -0.60 5.05 5.05 1.10 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.0	04. It takes time to open up myself to others	.702	.010	129	.064	.144	.514	
18. I am not good at carrying a conversation with a stranger.	48. It's difficult for me to make new friends in new situations.	.699	.007	025	.042	.122	.527	
Design namer	09. I tend to give a good first impression.	.687	.046	.140	.006	059	.581	
12 say grace of "hank you" before meals.	16. I am not good at carrying a conversation with a stranger.	,634	.069	038	.088	.170	.503	
48. Lawy thank you* after menks	basic manner	l ,						
Simple systemating you when someone is nice to me.	02. I say grace or "thank you" before meals.	.016	.790	258	.095	.000	.539	
5. I sometimes don't apologize when I bumping to someone. .021 .555 .058 .063 .137 .48	43. I say "thank you" after meals.	.037	.747	280	.098	.039	.484	
18 18 18 18 18 18 18 19 18 18	35. I say thank you when someone is nice to me.	-,098	.724	.261	.030	076	.703	
23. I smeatimes don't say 'thank you' when I should. 0,007	05. I sometimes don't apologize when I bump to someone.	.021	.655	.058	093	.137	.489	
28. I greet my friends, classmates and teachers at school in the morning. 1.66 5.672 1.190 -0.46 -1.23 5.68 1.10 -0.00 -0.15 4.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0.15 5.00 -0	37. I say "excuse me" or "sorry" when bumping to someone.	062	.619	.132	092	.023	.454	
21. I choose sometimes not to respond to my teacher(s) and friend(s). -0.008 572 1.22 -0.43 0.71 -0.60 5.61 1.89 5.60 1.80 5.61 1.80 5.67 1.80 5.67 1.80 5.60 1.80 5.60 1.80 5.67 1.80 5.60 1.80 5.60 1.80 5.60 1.80 5.60 1.80 5.60 1.80 5.60 1.80 5.60 1.80 5.60 1.80 5.60 1.80 5.60 1.80 5.60 1.80 5.60 1.80 5.60 1.80 5.60 1.80 5.60 1.80 5.60 1.80 5.60 1.80 5.60 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.	23. I sometimes don't say "thank you" when I should.	.057	.616	.085	026	.102	.460	
45. I say goodubye to my friends and teachers when I leave school. 1.14 5.72 2.13 0.49 -1.83 5.66	28. I greet my friends, classmates and teachers at school in the morning.	.166	.612	.169	046	123	.581	
1.	21. I choose sometimes not to respond to my teacher(s) and friend(s).	008	.572	.122	043	.071	.401	
Service consideration toward others 4. I am considerate of others. 4. I am considerate of others. 4. I am considerate of others. 5. I make sure I am understood when I talk. 6. I try to make my conversation interesting. 6. I may a patient listener. 7. I may a patient listener. 7. I may a patient listener. 8. I make sure people are having a good time. 8. I listen to others, instead of just talking about myself. 8. I listen to others, instead of just talking about myself. 9. I trend to do things without thinking of what others feel. 9. I trend to do things without thinking of what others feel. 9. I may a good team worker. 9. I may a good team worker. 9. I make sure that people have opportunities to speak in a discussion. 9. I make sure that people have opportunities to speak in a discussion. 9. I make sure that people have opportunities to speak in a discussion. 9. I make sure that people have opportunities to speak in a discussion. 9. I make sure that people have opportunities to speak in a discussion. 9. I make sure that people have opportunities to speak in a discussion. 9. I make sure that people have opportunities to speak in a discussion. 9. I make sure that people have opportunities to speak in a discussion. 9. I make sure that people have opportunities to speak in a discussion. 9. I make sure that people have opportunities to speak in a discussion. 9. I make sure that people have opportunities to speak in a discussion. 9. I make sure that people have opportunities to speak in a discussion. 9. I make sure that people have opportunities to speak in a discussion. 9. I make sure that people have opportunities to speak in a discussion. 9. I make sure that people have opportunities to speak in a discussion. 9. I make sure that people have opportunities to speak in a discussion. 9. I make sure that people have opportunities to speak in a discussion. 9. I make sure that people have opportunities to speak in a discussion. 9. I make sure that people have opportunities to speak in a	45. I say goodbye to my friends and teachers when I leave school.	.114	.572	.213	.049	183	.560	
1.4 1 am considerate of others -0.65 0.38 .777 -0.20 1.164 .66 .68 1.8 1 make sure I am understood when I talk .0.03 -0.65 .0.63 .776 .0.69 .103 .61 .11 Ity to make wy conversation interesting. -0.65 .0.69 .0.62 .0.69 .0.04 .61 .01 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11	06. I knock the door before I enter teachers rooms.	093	.442	.170	006	015	.263	
18. I make sure I am understood when I talk.	consideration toward others							
11. It try to make my conversation interesting.	34. I am considerate of others.	065	.038	.777	020	.154	.665	
1. 1 am a patient listener. 0.079 -0.047 6.02 -0.39 1.157 4.33 4.44 4.22 1. arg group, I make sure people are having a good time. 2.13 0.000 5.65 0.048 -1.133 4.44 4.22 1. arg group, I make sure people are having a good time. 2.13 0.000 5.65 0.048 -1.133 4.44 4.24 19. I tend to do things without thinking of what others feel. 0.071 1.157 5.057 0.078 2.23 4.41 4.22 1. arg good team worker. 2.22 1.193 4.65 0.109 0.13 4.77 0.13 4.77 0.14 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0	18. I make sure I am understood when I talk.	.003	083	.775	.059	.103	.619	
10 10 10 10 10 10 10 10	11. I try to make my conversation interesting.	035	020	,652	.008	024	.397	
18 1 18 18 18 18 18 19 19	01. I am a patient listener.	.079	047	.602	039	.157	.435	
19. I tend to do things without thinking of what others feel. 071 1.157 3.07 078 2.31 4.11 22. I am a good team worker. .223 .193 .408 .019 .013 .472 .432 .076 .014 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .275 .27	32. In a group, I make sure people are having a good time.	.213	.000	.585	048	133	.443	
22. I am a good team worker. .223 .193 .468 .019 .013 .478 .478 .481 .471 .482 .076 .014 .272 .272 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282 .282	36. I listen to others, instead of just talking about myself.	-,101	.086	.581	.017	.184	.428	
31. I make sure that people have opportunities to speak in a discussion. 27. I keep my word with my friends. 27. I keep my word with my friends. 27. I keep my word with my friends. 28. I say "no" when it is "no." 42. I say "no" when it is "no." 43. I tend to put up with my friend(s). 31. I can't say "no" when people ask me of things 32. I don't hesitate to be assertive. 33. I can't say "no" when people ask me of things 34. I tend to put up with my friend(s). 36. I confront my friend(s) when I get offended. 37. I confront my friend(s) when I get offended. 38. I have no problem expressing my opposition. 39. I can say "no" to my friend(s) when I get offended. 40. I tend to keep my feelings and thoughts to myself. 40. I tend to keep my feelings and thoughts to myself. 41. I can say "no" to my friend(s). 42. I can be provided by the my feelings and thoughts to myself. 43. I can say "no" to my friend(s). 44. I tend to keep my feelings and thoughts to myself. 45. I don't how my emotions even when I try not to 46. I tend to show my emotions even when I try not to 47. I can say "no" to my friend(s). 48. I tend to show my emotions even when I try not to 49. I don't show my emotions on my face. 40. I tend to show my emotions on my face. 41. I can behave myself even when I am upset. 42. I can behave myself even when I am nervous. 43. I tend to remain out of focus once getting distracted. 44. I tend to remain out of focus once getting distracted. 45. I sometimes reveal someone else's secret by accident. 45. I sometimes reveal someone else's secret by accident. 46. I tend to get panicked when I get scared. 47. I tend to get panicked when I get scared. 48. I tend to get panicked when I get scared. 49. I don't show my emotions on elementary factors 40. I tend to get panicked when I get scared. 40. I tend to get panicked when I get scared. 41. I tend to get panicked when I get scared. 42. I tend to get panicked when I get scared. 43. I tend to get panicked when I get scared. 44. I tend to get panicked when I get scared.	19. I tend to do things without thinking of what others feel.	071	.157	.507	078	.231	.415	
27. I keep my word with my friends. 033 .205 .376 012 .085 .25 assertion 042 002 014 .824 .062 .66 40. I tend to put up with my friend(s). 019 026 142 .668 .046 47. I can 't say "no" when people ask me of things 018 039 219 .618 .136 .41 47. I can express my opinion even it opposes to my teachers. .065 041 .239 .600 118 .48 47. I can express my opinion even it opposes to my teachers. .065 041 .239 .600 118 .48 47. I can express my opinion even it opposes to my teachers. .065 041 .239 .600 118 .48 47. I can express my opinion even it opposes to my teachers. .060 041 .239 .600 118 .48 48. I tend to keep my feelings and thoughts to myself. .040 .043 040 .515 .007 .40 48. I tend to popular expressing my opposition. .067 .037 .219 .508 086 .487 .165 <	22. I am a good team worker.	.223	.193	.468	.019	.013	.478	
assertion 42. I say "no" when it is "no." 42. I say "no" when it is "no." 42. I say "no" when it is "no." 42. I say "no" when people ask me of things 42. I cant say "no" when people ask me of things 43. I cant say "no" when people ask me of things 44. I can express my opinion even it opposes to my teachers. 45. I don't hesitate to be assertive. 46. I tend to be assertive. 47. I can express my opinion even it opposes to my teachers. 48. I say "no" to my friend(s) when I get offended. 49. I contront my friend(s) when I get offended. 49. I don't hesitate to be assertive. 49. I don't show my emotions on my face. 49. I don't show my emotions on my face. 40. I tend to show my emptions on my face. 40. I tend to take it out on others. 40. When I get upset, I tend to to take it out on others. 40. When I get upset, I tend to to take it out on others. 40. When I get upset, I tend to to take it out on others. 40. When I get upset, I tend to to take it out on others. 40. I don't show my emotions on my face. 41. I keep myself calm even when I am upset. 42. I can behave myself even when I am upset. 43. I can behave myself asserting that I'll regret later. 44. I tend to remain out of focus once getting distracted. 45. I can behave myself calm even when I am nervous. 46. I sometimes reveal someone else's secret by accident. 47. I keep myself calm even when I am nervous. 48. I tend to get panicked when I get scared. 49. I don't show on the factor correlation for the scared. 40. I tend to get panicked when I get scared. 40. I tend to get panicked when I get scared. 40. I sometimes reveal someone else's secret by accident. 40. I sector of Factor of Factor of	31. I make sure that people have opportunities to speak in a discussion.	.031	.127	.432	.076	014	.273	
42. I say "no" when it is "no." 40. I tend to put up with my friend(s). 40. I tend to put up with my friend(s). 40. I tend to put up with my friend(s). 40. I can't say "no" when people ask me of things 40. I can't say "no" when people ask me of things 40. I can't say "no" when people ask me of things 40. I can't say "no" when people ask me of things 40. I can't say "no" when people ask me of things 40. I can't say "no" when people ask me of things 40. I can't say "no" when people ask me of things 40. I can't say "no" when people ask me of things 40. I can't say "no" when people ask me of things 40. I can't say "no" when people ask me of things 40. I can't say "no" when people ask me of things 40. I can't say "no" when people ask me of things 40. I can't say "no" when people ask me of things 40. I can't say "no" when people ask me of things 40. I can't say "no" when people ask me of things 40. I can't say "no" when people ask me of things 40. I can't say "no" when people ask me of things 40. I can't say "no" when people ask me of things 40. I can't say "no" when people ask me of things 40. I can't say "no" when people ask me of things 40. I can't say "no" when people ask me of things 40. I can't say "no" when people ask me of things 40. I can't say "no" when people ask me of things 40. I can't say "no" when I say to poposition. 40. I tend to keep my feelings and thoughts to myself. 40. I tend to cap my feelings and thoughts to myself. 40. I tend to one problem expressing my opposition. 40. I tend to one problem expressing my opposition. 40. I tend to one my my experience when I try not to 40. I tend to show my emotions even when I am upset. 40. I tend to show my emotions even when I am upset. 40. I tend to show my emotions on my face. 40. I tend to show my emotions on my face. 40. I tend to show my emotions on my face. 40. I can behave myself even when I am tervous. 40. I can behave myself even when I am tervous. 40. I can behave myself even when I am tervous. 40. I can	27. I keep my word with my friends.	033	.205	.376	012	.085	.253	
40. I tend to put up with my friend(s). 3. I can't say "no" when people ask me of things 3. Can't say "no" when people ask me of things 3. Can't say "no" when people ask me of things 4. Author the sitate to be assertive. 3. Can't say "no" when people ask me of things 4. Author the sitate to be assertive. 3. Can't say "no" when people ask me of things 4. Author the sitate to be assertive. 4. Can't say "no" when people ask me of things to my teachers. 4. Can't say "no" when people ask me of things to my teachers. 4. Can't say "no" to my friend(s) when I get offended. 4. Can't say "no" to my friend(s) when I get offended. 4. Can't say "no" to my friend(s) when I get offended. 4. Can't say "no" to my friend(s) when I get offended. 4. Can't say "no" to my friend(s) when I get offended. 4. Can't say "no" to my friend(s) when I get offended. 4. Can't say "no" to my friend(s) when I get offended. 4. Can't say "no" to my friend(s) when I get offended. 4. Can't say "no" to my friend(s) when I get offended. 4. Can't say "no" to my friend(s) when I get offended. 4. Can't say "no" to my friend(s) when I get offended. 4. Can't say "no" to my friend(s) when I get offended. 4. Can't say "no" to my friend(s) when I get offended. 4. Can't say "no" to my friend(s) when I get offended. 4. Can't say "no" to my friend(s) when I get offended. 4. Can't say "no" to my friend(s) when I get offended. 4. Can't say "no" to my friend(s) when I get offended. 4. Can't say "no" to my friend(s) when I get offended. 4. Can't say "no" to my friend(s) when I get offended. 4. Can't say "no" to my friend(s) when I get offended. 5. Can't say "no" to my friend(s) when I get say "no" to my friend(s) when	assertion			5-TO-CO-CO-CO-CO-CO-CO-CO-CO-CO-CO-CO-CO-CO				
1 1 1 1 1 1 1 1 1 1	42. I say "no" when it is "no."	042	002	014	,824	.062	.660	
1 1 1 1 1 1 1 1 1 1	40. I tend to put up with my friend(s).	019	026	142	.658	.046	.427	
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Table 6 Result of factor analysis in Yangon

Table of Tresult of factor analysis in Tangon						-
Item	Factor1	Factor2	Factor3	Factor4	Factor5	Communality
relationship-building	050	0.00	100	202	016	Ene
12. I am good at icebreaking and mingling with strangers.	.058	263	133	.737	.016	.596 .302
20. I can talk to strangers without hesitating.	.001	212 .289	.121	.496	.013 169	.356
50. I am not good at talking to stranger(s).	172			.413		.324
07. I don't have a problem making new friends.	.008	.127	.492	.175	078	
39. I say hello to strangers.	.022	.066	.184	,628 .366	.046 .080	.480 .377
29. I have no problem making new friends.	.019	.189	.362			
04. It takes time to open up myself to others	226	.269 .462	.074 .349	.102	,073 070	.128 .378
48. It's difficult for me to make new friends in new situations.	105	existence and the second of th	.150	.684		.545
09. I tend to give a good first impression.	077	126 70	,	HEROCOCK PRINCIPALIZACIONISTRANIA	.175	.505
16. I am not good at carrying a conversation with a stranger.	036	.579	.004	.265	-,305	.000
basic manner	955	000	.312	003	.034	.239
02. I say grace or "thank you" before meals.	.355	233	.104	003	.173	.307
43. I say "thank you" after meals.	.528 .577	036 .008	.104	070	.160	.374
35. I say thank you when someone is nice to me.	071		029	010 044	.034	.205
05. I sometimes don't apologize when I bump to someone.	.632	.022	.169	084	.143	.442
37. I say "excuse me" or "sorry" when bumping to someone.	.236	.451	193	070	.214	.346
23. I sometimes don't say "thank you" when I should.	.503	168	.056	.070	059	.277
28. I greet my friends, classmates and teachers at school in the morning.	.203	106 .415	137	111	026	.250
21. I choose sometimes not to respond to my teacher(s) and friend(s).	.487	011	.168	025	.004	.212
45. I say goodbye to my friends and teachers when I leave school.	.331	011	.011	.167	322	.261
06. I knock the door before I enter teachers rooms. consideration toward others	1001	010	.011	.101	-,022	.201
34. I am considerate of others.	.345	038	027	.090	.208	.172
18. I make sure I am understood when I talk.	.248	.223	.118	.163	.000	.193
	.357	060	PERTURNISTRATORIO PERCURSO DE SACIE	.055	016	.339
11. I try to make my conversation interesting.	.313	.183	.233	.088	.105	.249
01. I am a patient listener.	.854	.003	province contraction and a second	.045	329	1.103
32. In a group, I make sure people are having a good time.36. I listen to others, instead of just talking about myself.	.400	.043	.008	.220	077	.249
	.067	.578		.016	.020	.240
19. I tend to do things without thinking of what others feel.	.190	.203	.320	.119	077	.235
22. I am a good team worker.	.021	004	.254	041	478	1
31. I make sure that people have opportunities to speak in a discussion.27. I keep my word with my friends.	.509	.233	.249	264	033	.422
assertion	1000	.200	,240	-,201	,000	,,,,,,,
42. I say "no" when it is "no."	.397	130	.319	.036	093	.261
40. I tend to put up with my friend(s).	246	134		248	318	l .
03. I can't say "no" when people ask me of things	214	138		-,186	.001	.178
47. I can express my opinion even it opposes to my teachers.	081	044	erent in a contract of the con	1	.031	.454
25. I don't hesitate to be assertive.	.398	1	122 (229)	056	.094	.656
17. I confront my friend(s) when I get offended.	.145	.034	1699094694096098096999	.421	087	.237
46. I tend to keep my feelings and thoughts to myself.	-,122	.355		.042	084	.166
38. I have no problem expressing my opposition.	.223	066	\$570x50x50x50x5500x505x505x60		034	.418
13. I can say "no" to my friend(s).	.167	116	Managarana	221	028	1
14. I ask teachers questions when I don't understand.	.375	f	#1-010/07/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/15/00/	168	258	,391
emotion regulation	.010	,010	, 200	1100	1200	1001
08. I tend to show my emotions even when I try not to	132	.249	037	150	.384	,246
10. When I get upset, I tend to take it out on others.	.068	protective to survivoration to survivorate	9	043	.118	1
49. I don't show my emotions on my face.	.099	014	a	.001	.493	
24. I can behave myself even when I am upset.	.414	9			.484	28
15. When I get upset, I tend to do things that I'll regret later.	.074	Augusticiano con escantina e	s .		.207	*
41. I keep myself calm even when I am nervous.	.080	Printerwood symplectic and a second	4	016	per out to the protection of the period of t	al .
44. I tend to remain out of focus once getting distracted.	061				.163	h.
30. I am calm even when I am feeling rushed.	.246				productive engine processor and entire	e d
33. I tend to get panicked when I get scared.	126				.296	TS .
26. I sometimes reveal someone else's secret by accident.	050	*DYSOTOTEMENT REPORTED TO	13.		.028	1
Variance explained by each factor eliminating other factors		NII WWGOSESSESSESSESSESSESSESSESSESSESSESSESSES	42		2.240	
Inter factor correlation	 	Factor2	Factor3	Factor4	Factor5	-
Factor	 		1 00000	1	1	-
Factor	1					
Factor	I					
Factor						
Factor	1				1	
* Hotore	1	,.20				_

others" items) formed a single factor (F3).

Table 4 shows the results for Shenzhen. It was verified that relationship-building items grouped into (F1), assertiveness items grouped into (F3), and items for emotion regulation grouped into (F4). Some items within "consideration toward others" combined with basic manners items to form (F2), but it can also be seen that 5 items within "consideration toward others" grouped to form (F5).

Table 5 shows the results for Tokyo. Naturally, the grouping of subscale question items was verified here.

Table 6 shows the results for Yangon. It can be seen that 5 items within relationship-building formed (F4) and 5 items within emotion regulation formed (F5), but also that various other subscale items are all mixed in from the first factor to the third factor.

Comparison of Subscale Scores

Table 7 shows mean values and standard deviations for each subscale skill and total scores in each of the 4 cities. Figure 1 shows a comparison of these mean values. In Figure 1, the 5 subscale skills are displayed simultane-

Table 7 Mean and SD of scale scores

	City					
	Shanghai	Shenzhen	Tokyo	Yangon		
relationship-building	6.87	6.83	6.00	5.65	6.12	
	2.64	2.69	3.26	2.26	3.07	
basic manner	8.05	7.85	8.64	7.04	8.31	
	1.73	1.68	1.85	1.71	1.88	
consideration toward others	8.94	8.79	7.29	8.44	7.72	
	1.55	1.58	2.44	1.48	2.30	
assertion	5.73	5.57	5.45	6.34	5.59	
	2.10	2.25	2.72	1.61	2.53	
emotion regulation	5.70	5.37	5.04	4.96	5.12	
	2.30	2.27	2.59	2.10	2.49	
Total	35.50	34.36	32.42	32.51	32.90	
	6.39	6.82	8.02	5.38	7.58	

upper: mean, lower: SD.

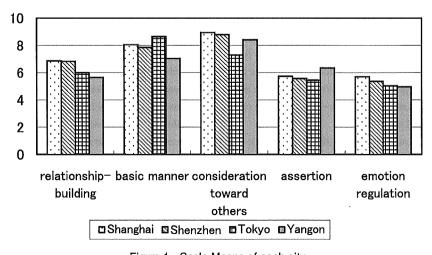


Figure 1 Scale Means of each city

ously for the sake of convenience, and it is necessary to recognize that while comparisons between cities within the same subscale skills are possible, comparisons between mean values of subscale skills are not possible.

Looking at Table 7 and Figure 1, it can be seen that the mean values for Tokyo were relatively high for basic manners, and low for consideration toward others and relationship-building. Also, it was verified that the mean values for Shanghai and Shenzhen were mutually closer with regard to subscale skills, considered in comparison to the mean values of Tokyo and Yangon.

Furthermore, the mean values and standard deviations for total scores for the 50 items were 35.50 (6.39) in Shanghai, 34.36 (6.82) in Shenzhen, 32.42 (8.02) in Tokyo, and 32.51 (5.38) in Yangon, indicating no great variance in mean values.

Discussion

Concerning Reliability of Scale

Firstly, the fact that the alpha coefficient value for each subscale skill from the Tokyo study falls within the range 0.72 to 0.87 indicates a high degree of reliability.

The alpha coefficient values for relationship-building skills in Shanghai and Shenzhen were 0.79 and 0.80, which was taken to indicate a high degree of internal consistency. Also, the alpha coefficient values for consideration toward others as well as emotion regulation were both above 0.65 in Shanghai and Shenzhen, which are comparatively high values. The alpha coefficient values for basic manners and assertiveness exceeded 0.5, so it can at least be inferred that the variance of true scores was not greater than the error variance.

In Yangon, the alpha coefficient value for relationshipbuilding skills was 0.64, which was comparatively high. However, the alpha coefficient values for the other subscale skills were generally low. Except for emotion regulation, which was rated at 0.55, the values of all the other subscale skills fell below 0.5.

Incidentally, in studies such as Murakami (1999), it is indicated that when making comparisons of mean values, lower scale reliability can be compensated for by increasing the number of subjects (as standard error decreases).

From the above, when undertaking comparison of subscale skills scores in Shanghai, Shenzhen, and Yangon, the following points must be understood. Firstly, in all of these cities, a degree of measurement reliability for relationship-building skills has been established beyond a certain level. Additionally, comparisons of mean values for each subscale skill in Shanghai, Shenzhen, and Tokyo are also possible to a certain extent. Furthermore, whereas the alpha coefficient value for basic manners in Tokyo was 0.74, the values for other cities ranged from 0.46 to 0.59. This result is only natural, however, when it is considered that this study used a scale that was developed in Japan, and that which constitutes basic manners in Japan is naturally subject to Japanese cultural considerations.

Concerning Factor Analysis Results

Let us now examine the factor analysis results from Tables 3 to 6. For the Shenzhen results displayed in Table 4, while consideration toward others is rather unclear, it can be believed that the 5 subscale skills are composed in an identical fashion to Tokyo. For the Shanghai results displayed in Table 3, while basic manners and assertiveness remain unclear, it can be stated that skills in emotion regulation, consideration toward others, and relationship-building were verifiable. In contrast, in the Yangon study, it can be stated that relationship-building and emotion regulation were verifiable while they were unclear, however, the other subscale skills were believed not to be differentiated.

Accordingly, considering the reliability coefficient values, it is believed that skills in relationship-building were able to be verified as common social skills for the 4 cities in which this study was conducted. Also, for the 3 cities of Shanghai, Shenzhen, and Tokyo, it is believed that skills in consideration toward others and emotion regulation were able to be verified as common social skills. Skills in basic manners and assertion were able to be verified from the Tokyo and Shenzhen data, but these were unclear in Shanghai, and were not verifiable in Yangon, leading to the conclusion that these cannot really be described as common skills among these cities.

The results from Tokyo and Shenzhen, as well as those from Shanghai, were relatively similar while those from Yangon were quite different. Considered from the perspective of cultural similarity, this is believed to reflect the fact that Shanghai, Shenzhen, and Tokyo are located within the cultural sphere of Chinese character use, whereas Yangon is located within the Burmese language cultural sphere, and also that Shanghai, Shenzhen, and

Tokyo have a Confucian culture, whereas in Burma has a Buddhist culture, as well as the fact that China and Japan have a northern Buddhist culture where as Burma has a southern Buddhist culture.

Concerning Results of Comparison of Subscale Scores

Since that the reliability of subscale skills in Yangon was believed inadequate, the discussion here will principally involve comparison results of the mean values for the cities of Shanghai, Shenzhen and Tokyo.

The mean values for Tokyo were relatively lower than in Shanghai and Shenzhen with regard to relationship-building skills and skills in consideration toward others. Accordingly, since these two subscale skills were able to be considered common skills among these cities, it can be assumed that the students from Tokyo having a lower assessment of the extent of their own relationship-building skills and skills in consideration toward others, compared to students from Shanghai and Shenzhen. Stated conversely, students from Shanghai and Shenzhen may assess their own relationship-building skills and skills in consideration toward others more highly than students from Tokyo.

Skills in emotion regulation were verifiable as being common among the 3 cities, and while there was no great variance in mean values here, Shanghai was ranked relatively high, then Shenzhen, with Tokyo ranking lowest.

It is necessary here to consider the influence of social desirability in the response process. The possibility that social desirability might influence responses can never be completely denied as long as a self-report inventory is used. However, as can be seen from Table 7 and Figure 1, it is impossible to explain using the influence of social desirability alone the fact that the magnitude correlation of mean values of each subscale skill between cities differed, and it is believed possible that the assessment of the extent of social skills is reflected here.

From the above, for each subscale skills that were verified as common among the cities of Shanghai, Shenzhen and Tokyo (relationship-building, consideration toward others, and emotion regulation), although these were self-report ratings, the results can be summarized as representing relatively high rankings for Shanghai and Shenzhen and relatively low rankings for Tokyo.

Conclusion

While it may be needless to point out that the crosscultural comparison of social skills is a difficult matter, since these are so dependent on culture, the results of our study showed that commonalities among relationship-building skills, skills in consideration toward others, and skills in emotion regulation were able to be confirmed in several different cities. This is believed to indicate that cross-cultural comparisons are indeed possible to a certain extent.

First among the issues for future resolution is the undertaking of further research in cities not included in the current study. Considering the ongoing internationalization and globalization of society, even more than comparisons with other Asian cities such as those in South Korea and Singapore, there is a necessity to consider undertaking comparisons with European and American countries.

Also, the scale for measuring social skills used in this study (SSI-M) is a self-report format, but considering that PISA conducts measurement in a test-based format (Schleicher 2003), another issue for future resolution is developing an test-based or objective method of measuring social skills, and then undertaking further crosscultural comparisons.

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原著

ABSTRACT

An Investigation of the Cross-Cultural Comparability of Social Skills

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The inclusion of the measurement of social skills in the PISA administered by OECD is currently under consideration. However, it is often argued that standards for evaluation of social skills are set within the framework of a given society and that any cross-cultural comparison beyond this framework is essentially impossible. In this study, an investigation was conducted in cities in the Asian region (Shanghai, Shenzhen, Yangon) whose cultures are comparatively closer to Japan's. The Social Skill Inventory for Middle School Students (SSI-M) standardized in Japan was utilized in the study, and a review of the cross-cultural comparability of social skills was undertaken. As a result, it was demonstrated that cross-cultural comparison of skills in relationship-building, consideration toward others, and emotion regulation was possible to a certain extent. Furthermore, from a comparison of mean values of subscale skills, it was clear that mean values for these 3 social skills were lower in Tokyo compared to Shanghai and Shenzhen.

Key words: social skills, cross-cultural comparison, PISA