

An Analysis for the Questionnaire Investigation About the High School Teachers Workload

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Abstract. High School teachers in Japan are sending very busy days on their daily works including teaching, support for the club activities and deskwork. Among them, they share a lot of time for managing the club activies of students compared with other countries. In that area, professionals can make instruction much better than teachers for the special sports like Judo and Kendo (Japanese fencing) etc. School Social Worker can coordinate the professionals out of school and can help teachers by decreasing their burden on that area. There are few related papers concerning the support of club activities by utilizing the professionals outside. In this paper, a questionnaire investigation is executed to the four High Schools at Iwate Prefecture in Japan in order to clarify their current condition and their consciousness, and to seek the possibility of utilizing school social worker for their support. Fundamental statistical analysis, Factor Analysis and Multi Corresponding Analysis are performed. Some interesting and instructive results were obtained.

Keywords: School Social Worker, High school teacher, Multi Corresponding Analysis, Factor Analysis

1. INTRODUCTION

Teacher at High school / Junior High School in Japan are sending very busy days in general on their daily works including teaching, support for the club activities and deskwork. Among them, they share a lot of time for managing the club actives of students compared with other countries. In particular, it takes time to manage the club activities for sports. In that area, professionals can make instruction much better than teachers for the special sports like Judo and Kendo (Japanese fencing) etc. School Social Worker can coordinate the professionals out of school and can help teachers by decreasing their burden on that area.

There are many researches made on School Social Workers' function. For example, H. Konyuba (2011) analyzed the teacher's sparing time for club activities and pointed out that there is a difference between the sports club and the culture club. K.Yonekawa (2011) discussed the mental health support by school social worker. M.S.Kelly

et al. (2010) made School Social work survey and derived instructive insight.

OECD (Organisation for Economic Co-operation and Development) has released the investigation report of "Teaching And Learning International Survey (TALIS)" on June 25/2014. It is reported that the teacher's total working hours for a week in Japan were the most among 33 countries. Main data are as follows.

/Teacher's total working hours for a week in Japan: 53.9 (Average: 38.3)

/ Teacher's working hours of support for the club activities for a week in Japan: 7.7(Average: 2.1)

/Teacher's working hours of deskwork for a week in Japan: 5.5 (Average: 2.9)

/Teacher's teaching hours for a week in Japan: 17.7 (Average: 19.3)

Teacher's working hours of support for the club activities were nearly triple, and those of deskwork double compared with the average, while the teaching hours were

less than those of the average. They are too busy for the support of the club activities and deskwork, which causes bad influence on their teaching activities.

Although there are some related papers as these, but there are few related papers concerning the support of club activities by utilizing the professionals outside especially in the Japanese case.

In this paper, a questionnaire investigation is executed to the four High Schools at Iwate Prefecture in Japan in order to clarify their current condition and their consciousness, and to seek the possibility of utilizing school social worker for their support. Fundamental statistical analysis, Factor Analysis and Multi Corresponding Analysis are performed. Some interesting results were obtained.

The rest of the paper is organized as follows. Outline of questionnaire investigation is stated in section 2. Factor Analysis is conducted in section 3 and Multi Corresponding Analysis is executed in section 4 which is followed by the Remarks of section 5.

2. Outline and the Basic Statistical Results of the Questionnaire Research

2.1 Outline of the Questionnaire Research

We make a questionnaire investigation for the Support of High School Teachers by the School Social Worker. The outline of questionnaire research is as follows. Questionnaire sheet is attached in Appendix.

- (1) Scope of : High School Teacher, 4 High Schools in Iwate Prefecture, Japan
- (2) Period : January ~ March 2015
- (3) Method : Leave until called for
- (4) Collection : Number of distribution 120
Number of collection 111(collection rate 92.5%)
Valid answer 111

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2.2 Basic Statistical Results

Now, we show the main summary results by single variable.

2.2.1 Characteristics of answers (Q4)

- (1) Sex (Q4-1)
Male: 69.37%

Female: 28.83%
(Not filled in: 1.8%)

(2) Age (Q4-2)
20 ~ 29: 10.81%
30~39: 23.42%
40~49: 40.54%
50~59: 19.82%
More than 60: 4.5%
(Not filled in: 0.9%)

(3) Position (Q4-3)
Deputy Principal: 2.7%
A person in charge of educational affairs: 12.61%
Teacher: 69.37%
Lecturer: 11.71%
Assistant: 0.9%
Miscellaneous: 1.8%
(Not filled in: 0.9%)

(4) Experience as a teacher (Q4-4)
More than 10 years consists of 64.86%, i.e. nearly 2/3..

(5) How many years are you working for the present school?
5~9 years (19.82%) and more than 10 years (61.26%) consist of nearly 4/5.
e third-level of heading follows the style of the second-level heading. Avoid using more than third level for heading.

2.2.2 Club Activities

(1) Sports Club (Q 1-2-1)
Large part one is Basketball (10.94%), Baseball (9.38%) and Tennis (9.38%).

(2) Culture Club (Q1—2—2)
Main items are as follows.
/ART: 8.33%, /Literature: 6.25%, /Broadcast Department: 4.17%, /Theater Photo Department: 4.17%.

(3) How about the sort of job? (Q1—2—2—3)
/Adviser: 77.48%, /Deputy Adviser: 21.62%,
Miscellaneous: 0.9%
Adviser holds the majority.

(4) Is the club strong enough to participate in the national sports match? (Q1—2—2—4)
Nearly 1/7 of them are the strong teams to participate in the national sports match.

- (5) Is the club activity active? (Q1—2—2—5)
 Nearly half of them have selected “Cannot say either”.
- (6) How long a time do you spare for the club activity (Include moving time) (Q1—2—2—6)
 Up to 60 hours in month exceeds 70% and up to 90 hours reaches 85% in the total.

2.2.3 Consciousness for the daily works (Q2)

- (1) Feel it burden to teach (Q2-1)
 Nearly 1/3 of the teachers feel it burden to teach.
- (2) Feel it burden to prepare for teaching (Q2-2)
 Nearly 40% of the teachers feel it burden to prepare for teaching.
- (3) Feel it burden to instruct for learning(Q2-3)
 Nearly 31% of the teachers feel it burden to instruct for learning.
- (4) Feel it burden to handle the students' performance(Q2-4)
 Nearly 38% of the teachers feel it burden to handle the students' performance.
- (5) Feel it burden to guide students (Q2-5)
 Nearly 40% of the teachers feel it burden to guide students.
- (6) Feel it burden to guide club activities(Q2-6)
 Nearly 39% of the teachers feel it burden to guide club activities.
- (7) Feel it burden to manage the class(Q2-8)
 Nearly 1/3 of the teachers feel it burden to manage the class.
- (8) Feel it burden to deal with meeting, advance arrangement (Q2-9)
 Nearly 32% of the teachers feel it burden to deal with meeting, advance arrangement.
- (9) Feel it burden to deal with parents(Q2-10)
 Nearly 44% of the teachers feel it burden to deal with parents.

2.2.4 Consciousness for guiding the club activities (Q3)

- (1) Worthwhile to guide club activities (Q3-1)
 Positive attitude to this theme can be seen (52%).
- (2) It is better for the professionals to guide club activities

- (Q3-2)
 Strong positive attitude to this theme can be confirmed (74%).
- (3) I do not know the club field precisely that I take charge of (Q3-3)
 Rather many teachers (37%) feel anxiety for their expertise in their club field.
- (4) Quite tired because of the activity on holiday (Q3-5)
 Nearly half of them feel tired because of the club activity on holiday.
- (5) Have a hard time for the technical guidance (Q3-6)
 Nearly half of them have a hard time for the technical guidance.
- (6) Have a hard time for the mental guidance (Q3-7)
 Nearly 53% of them have a hard time for the mental guidance.
- (7) Want to have a person to consult with in guiding club activities (Q3-8)
 Nearly half of them want to have a person to consult with in guiding club activities.

3. Factor Analysis

Factor Analysis is executed. As for the extraction method of the factor, “the principal axis factoring” is adopted, and as for the rolling-method, “the varimax rotation which is accompanied by the normalization of kaiser as orthogonal rotation” is adopted. Also, we confirmed the validity of the model in the KMO (Kaisel-Meyer-Olkin) specimen validity measure. When the value is more than 0.8, it is said meritorious, more than 0.7 middling, more than 0.6, mediocre. Bartlett sphericity test is executed as well. If the score is less than 0.05, then it is said that there is a correlation among observation variables. (1) Q2 “We ask you a consciousness for the daily works” KMO measure is 0.852 and Bartlett Score is 0.000. We can confirm a rather appropriate common factor. From the Fact or Matrix after rotation (Table 3.1), we can extract 2 meaningful axes. Summary of factor loading value is 49.155% therefore extracted 2 factors can explain 49.155% of the data.

We can see that the first axis is the factor about “Teaching and learning for student” as the score for “Teaching”, ”Preparing Teaching”, ”Instructing Learning”, ”Handling Student's Performance” and ”Student Guidance” are high (Exhibition of characters in the Figure is limited therefore abbreviated expression is used.). Second axis is the factor about “Miscellaneous jobs without Teaching and Learning” as the scor

e for "Club Activities" and "Class Management" "Committee Guidance" and "PTA meeting" are high.

Table 3.1 Factor Matrix after Rotation

	Factor	
	1	2
Teaching	.718	.369
PreparingTeaching	.665	.352
InstructingLaerning	.700	.317
HnadingStudentsPerfomance	.414	.379
StudentGuidance	.396	.371
ClubActivities	.367	.534
CommitteeGuidence	.333	.684
ClassManagement	.178	.806
ArrangementMeeting	.602	.154
PTAmeeting	.377	.539

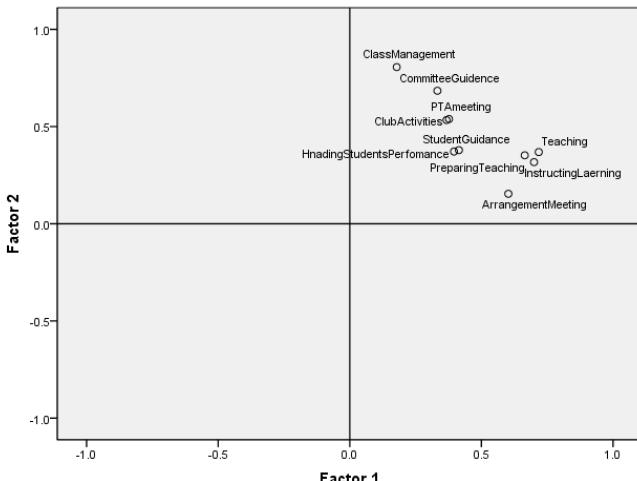


Figure 3.1 Factor Plotting in Factor Space

(1) Q3 "We ask you a consciousness for guiding the club activities"

KMO measure is 0.796 and Bartlett Score is 0.000. We can confirm a rather appropriate common factor. From the Factor Matrix after rotation, we can extract 2 meaningful axes. Summary of factor loading value is 43.657% therefore extracted 2 factors can explain 43.657% of the data. We can see that the first axis is the factor about "Feel it burden for the club activities" as the score for "Burden for Holiday Activities", "Struggling in Technical Guidance", "Cutting Subject Preparation Time", "Want the person to consult with", and "Struggling in Mental Guidance" are high. Second axis is the factor about "Career" as the score for "Feel Worthwhile" and "Inexperience" are high.

Table 3.2 Factor Matrix after rotation

	Factor	
	1	2
FeelWorthwhile	-.039	-.508
BetterForTheProfessionals	.245	.182
Inexperience	.331	.596
CuttingSubjectPreparationTime	.746	.148
HolidayActivitiesBurden	.681	.086
StrugglingTechnicalGuidance	.509	.314
StrugglingMentalGuidance	.520	.121
WantPeopleWhoCanConsult	.724	.320

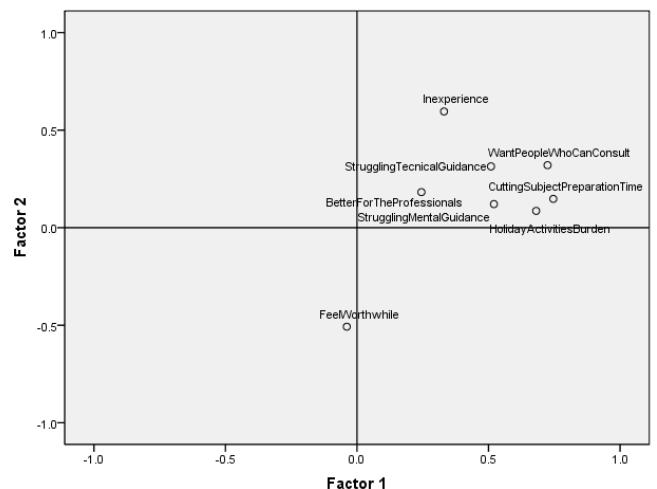


Figure 3.2 Factor Plotting in Factor Space

In the above Table, there was no hatched part in "Better for the professionals to Guide" therefore we skip this part and check it again without this.

KMO measure is 0.808 (nearly the same with before) and Bartlett Score is 0.000. We can confirm a rather appropriate common factor. From the Factor Matrix after rotation, we can extract 2 meaningful axes. Summary of factor loading value is 43.657% therefore extracted 2 factors can explain 43.657% of the data. The relation among items became much clearer. The meaning of the first axis is basically the same with before. While the second axis is the factor about "Negative Career" as the score for "Inexperience" is high.

Table 3.3 Factor Matrix after rotation

	Factor	
	1	2
FeelWorthwhile	-.047	-.479
Inexperience	.322	.638
CuttingSubjectPreparationTime	.758	.162

HolidayActivitiesBurden	.670	.077
StrugglingTechnicalGuidance	.505	.298
StrugglingMentalGuidance	.528	.125
WantPeopleWhoCanConsult	.720	.316

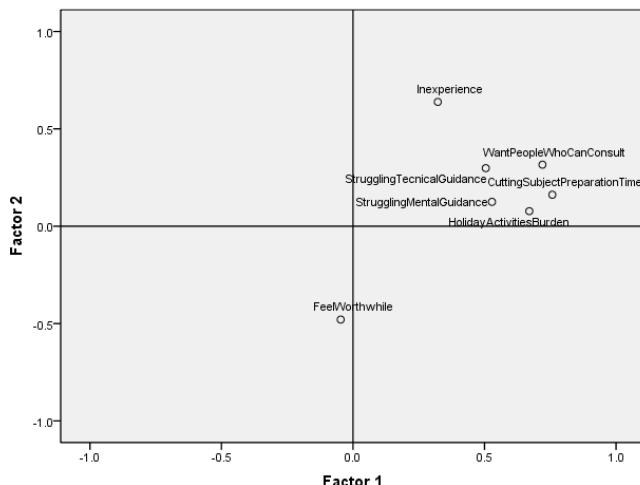


Figure 3.3 Factor Plotting in Factor Space

4. Multi Corresponding Analysis

We execute the multi correspondence analysis in Q2 “We ask you a consciousness for the daily works” and Q3 “We ask you a consciousness for guiding the club activities” in order to find the correlation of each items.

(1) Q2 “We ask you a consciousness for the daily works”

We can observe the following result from Figure 4.1. From the data, an eigenvalue of Dimension 1 axis is 0.486 and those of Dimension 2 is 0.321. 80.7% can be explained by these two major axes. We can extract 4 clusters. We can assume that the first cluster (Right Upper) shows “Hardness in guiding ” (Struggling in Technical Guidance, Struggling in Mental Guidance). The second one(Left Middle) would mean “ Mental burden ” (Want the person to consult with). The third cluster (Left Center) is about “Student guidance on student performance” (Handling Student Performance, Student Guidance). The fourth one (Left Lower) would be “Educational Activity except for teaching”(Class Management, Club Activity).

Among them, the cluster “Club Activities” is far from other clusters and it shows the uniqueness of its characteristics.

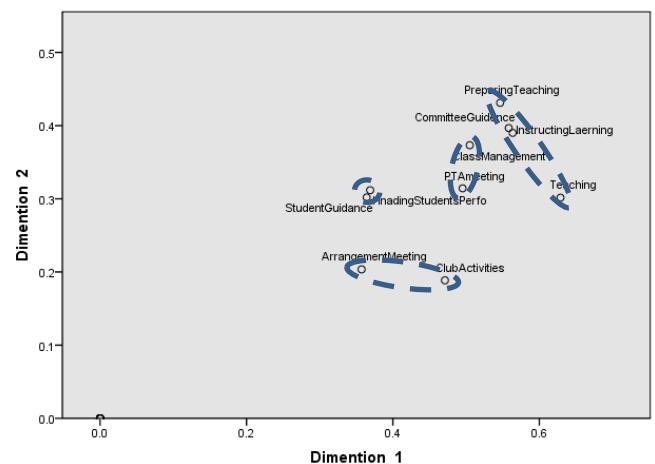


Figure 4.1 Q2 Consciousness for the daily works

(2) Q3 “We ask you a consciousness for guiding the club activities”

We can observe the following result from Figure 4.2. From the data, an eigenvalue of Dimension 1 axis is 0.413 and those of Dimension 2 is 0.259. We can extract 4 clusters. We can assume that the first cluster (Right Upper) shows

“ Hardness in guiding ” (Struggling in Technical Guidance, Struggling in Mental Guidance). The second one(Right Middle) would mean “ Mental burden ” (8.Want the person to consult with). The third cluster (Left Middle) would mean “Lack of Specialization” (Better for the professionals to Guide). The other cluster maybe “Career of himself/herself” (Inexperience, Feel worthwhile, Cutting Subject Preparation Time, Burden for Holiday Activities).

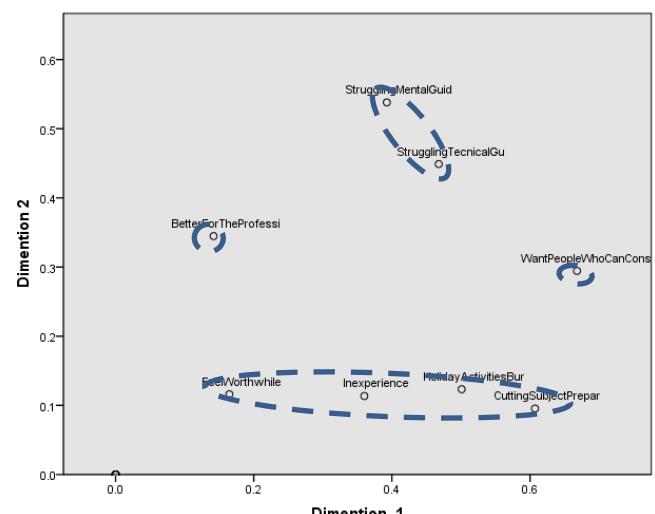


Figure 4.2 Q3 Consciousness for guiding the club activities

REMARKS

In this paper, a questionnaire investigation is executed in order to clarify their current condition and their consciousness, and to seek the possibility of utilizing school social worker for their support.

In the Factor Analysis, 2 meaningful axes could be extracted in the consciousness for the daily works and also 2 meaningful axes could be extracted in the consciousness for guiding the club activities. In the Multi Corresponding Analysis, 4 clusters could be confirmed. Among them, in the consciousness for the daily works, the cluster “Club Activities” and “Meeting” consisted as an independent item and was located far from other clusters and it shows the uniqueness of its characteristics. In the consciousness for guiding the club activities, “Want the person to consult with” and “Better for the professionals to Guide” located as an independent item and was located far from other clusters and it shows the uniqueness of its characteristics.

Considering these facts, these suggest that unique/original approach should be executed to the “Club Activities”. Based upon the results of hypothesis testing, teachers’ burden may be decreased by utilizing outer specialist in guiding club activities. School Social Worker can coordinate the professionals out of school and can help teachers by decreasing their burden on that area. This suggests the possibility of developing the new activity field for the School Social Worker.

6. CONCLUSION

High School teachers in Japan are sending very busy days on their daily works including teaching, support for the club activities and deskwork. Among them, they share a lot of time for managing the club actives of students compared with other countries. In that area, professionals can make instruction much better than teachers for the special sports like Judo and Kendo (Japanese fencing) etc. School Social Worker can coordinate the professionals out of school and can help teachers by decreasing their burden on that area. There are few related papers concerning the support of club activities by utilizing the professionals outside. In this paper, a questionnaire investigation was executed to the four High Schools at Iwate Prefecture in Japan in order to clarify their current condition and their consciousness, and to seek the possibility of utilizing school social worker for their support. Fundamental statistical analysis, Factor Analysis and Multi Corresponding Analysis were performed.

In the Multi Corresponding Analysis, the following two unique results could be obtained. In the consciousness for the daily works, the cluster “Club Activities” and “Meeting”

consisted as an independent item and was located far from other clusters and it shows the uniqueness of its characteristics. In the consciousness for guiding the club activities, “Want the person to consult with” and “Better for the professionals to Guide” located as an independent item and was located far from other clusters and it shows the uniqueness of its characteristics.

Based upon the results, these suggest that unique/original approach should be executed to the “Club Activities”. Based upon the results of hypothesis testing, teachers’ burden may be decreased by utilizing outer specialist in guiding club activities. School Social Worker can coordinate the professionals out of school and can help teachers by decreasing their burden on that area. This suggests the possibility of developing the new activity field for the School Social Worker.

Further study on this should be executed such as text mining analysis. Various cases should be investigated here after.

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APPENDICES

Questionnaire about the Club Activities at High School

1. Please select the appropriate item in each column.

1	<input type="radio"/> Private	<input type="radio"/> Public	<input type="radio"/> Ordinary course	<input type="radio"/> Technical course	<input type="radio"/> Commercial course	<input type="radio"/> Miscellaneous ()	
(1) Select the club you are in charge of.							
Sports club	<input type="radio"/> Baseball <input type="radio"/> Tennis <input type="radio"/> Rugby <input type="radio"/> Soccer <input type="radio"/> Track-and-field <input type="radio"/> Hockey <input type="radio"/> Archery <input type="radio"/> Golf <input type="radio"/> Kyudo (Japanese Archery) <input type="radio"/> Horsemanship <input type="radio"/> Basketball <input type="radio"/> Badminton <input type="radio"/> Heavy gymnastics <input type="radio"/> Volleyball <input type="radio"/> Table tennis <input type="radio"/> Judo <input type="radio"/> Kendo <input type="radio"/> Alpine <input type="radio"/> Skiing <input type="radio"/> Swimming <input type="radio"/> Miscellaneous ()						
Culture club	<input type="radio"/> Human sciences <input type="radio"/> Research section <input type="radio"/> Living thing research section <input type="radio"/> Chemistry research section <input type="radio"/> Physics research <input type="radio"/> Mathematics research <input type="radio"/> Brass ensemble <input type="radio"/> Instrumental music <input type="radio"/> Literature <input type="radio"/> Shogi (Japanese Chess) <input type="radio"/> Art <input type="radio"/> Calligraphy <input type="radio"/> Railroad research <input type="radio"/> ESS <input type="radio"/> Newspaper <input type="radio"/> Broadcast Department <input type="radio"/> Classic <input type="radio"/> Theater <input type="radio"/> Debating <input type="radio"/> Photo department <input type="radio"/> Radio <input type="radio"/> Movie research <input type="radio"/> Miscellaneous ()						
2	<input type="radio"/> Adviser	<input type="radio"/> Deputy Adviser	<input type="radio"/> Miscellaneous ()	(2) How about the sort of job?			
3	<input type="radio"/> Yes	<input type="radio"/> Cannot say either	<input type="radio"/> No	Is the club strong enough to participate in the national sports match?			
4	<input type="radio"/> Yes	<input type="radio"/> Cannot say either	<input type="radio"/> No	Is the club activity active?			
5	How much time do you spare for the club activity (Include moving time)						
6	() hours / month						

2. We ask you a consciousness for the daily works.

	1	2	3	4	5
Think it very much	Slightly think so	Cannot say either	Slightly do not think so	Do not think so	

1.	Feel it burden to teach	1	2	3	4	5
2.	Feel it burden to prepare for teaching	1	2	3	4	5
3.	Feel it burden to instruct for learning	1	2	3	4	5
4.	Feel it burden to handle the students' performance	1	2	3	4	5
5.	Feel it burden to guide students	1	2	3	4	5
6.	Feel it burden to guide club activities	1	2	3	4	5
7.	Feel it burden to guide committee	1	2	3	4	5
8.	Feel it burden to manage the class	1	2	3	4	5
9.	Feel it burden to deal with meeting, advance arrangement	1	2	3	4	5
10.	Feel it burden to deal with parents	1	2	3	4	5

3. We ask you a consciousness for guiding the club activities.

1.	Feel worthwhile to guide club activities.	1	2	3	4	5
2.	It is better for the professionals to guide club activities.	1	2	3	4	5
3.	I do not know the club field precisely that I take charge of.	1	2	3	4	5
4.	I cannot share enough time to prepare for teaching because of the workload for the guidance of club activities.	1	2	3	4	5
5.	Quite tired because of the activity on holiday.	1	2	3	4	5
6.	Have a hard time for the technical guidance.	1	2	3	4	5
7.	Have a hard time for the mental guidance.	1	2	3	4	5
8.	Want to have a person to consult with in guiding club activities.	1	2	3	4	5

4. We ask questions about yourself.

1	Sex	<input type="radio"/> Male	<input type="radio"/> Female	<input type="radio"/> ④ 20~29	<input type="radio"/> ⑤ 30~39	<input type="radio"/> ⑥ 40~49	<input type="radio"/> ⑦ 50~59	<input type="radio"/> ⑧ More than 60			
2	Age										
3	Position.	<input type="radio"/> Principal	<input type="radio"/> Deputy Principal	<input type="radio"/> ③ a person in charge of educational affairs	<input type="radio"/> ④ Teacher	<input type="radio"/> ⑤ Lecture	<input type="radio"/> ⑥ Assistant	<input type="radio"/> ⑦ Miscellaneous ()			
4	Experience as a teacher.	<input type="radio"/> Within 1 year	<input type="radio"/> ② 1 ~ 2 years	<input type="radio"/> ③ 3 ~ 4 years	<input type="radio"/> ④ 5 ~ 9 years	<input type="radio"/> ⑤ 10 years or more					
5	How many years are you working for the present school?	<input type="radio"/> Within 1 year	<input type="radio"/> ② 1 ~ 2 years	<input type="radio"/> ③ 3 ~ 4 years	<input type="radio"/> ④ 5 ~ 9 years	<input type="radio"/> ⑤ 10 years or more					
6	Blood Type.	<input type="radio"/> A Type	<input type="radio"/> B Type	<input type="radio"/> O Type	<input type="radio"/> AB Type	<input type="radio"/> Unknown					
7	Are you married?	<input type="radio"/> Single	<input type="radio"/> Married								
8	How many children do you have?	<input type="radio"/> Member-of-society (daughter who got married) () people	<input type="radio"/> College student () people	<input type="radio"/> High school student () people	<input type="radio"/> Junior high school student () people	<input type="radio"/> Schoolchild () people	<input type="radio"/> ⑥ Less than kindergarten () people	<input type="radio"/> ⑦ Nothing			
9	Are you positive to do anything?	<input type="radio"/> Positive	<input type="radio"/> Cannot choose either	<input type="radio"/> Not positive							
10	Do you like to be alone?	<input type="radio"/> Think it so much	<input type="radio"/> Slightly think it so	<input type="radio"/> Cannot choose either	<input type="radio"/> Slightly do not think it so	<input type="radio"/> Not think it so					
11	How do you spend holidays?	<input type="radio"/> Outdoor	<input type="radio"/> Indoor	<input type="radio"/> Cannot choose either							
12	What is most important to you? Choose only one.	<input type="radio"/> Affection	<input type="radio"/> Money	<input type="radio"/> Honor	<input type="radio"/> Clothes/Eating/House	<input type="radio"/> Self-realization	<input type="radio"/> ⑥ Miscellaneous ()				
13	Do you have a brother?	<input type="radio"/> Yes	<input type="radio"/> No								
14	In what situation among brothers?	<input type="radio"/> The eldest son or the eldest daughter	<input type="radio"/> Between ① and ②	<input type="radio"/> Youngest child							
(1) We ask questions about your current condition.											
15	How about your physical condition?	<input type="radio"/> Very good	<input type="radio"/> Rather good	<input type="radio"/> Ordinary level	<input type="radio"/> Not so good	<input type="radio"/> Bad					
16	Is your work progressing smoothly?	<input type="radio"/> ⑤	<input type="radio"/> ④	<input type="radio"/> ③	<input type="radio"/> ②	<input type="radio"/> ①					
17	Do you living a full life?	<input type="radio"/> ⑤	<input type="radio"/> ④	<input type="radio"/> ③	<input type="radio"/> ②	<input type="radio"/> ①					