

Within School Student Sampling Instructions for Inspectors

Solomon Islands

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Educational Quality and Assessment Programme

Sample Design



- PILNA 2018 Sample is a two-stage stratified sample.
- First Stage: a total of 120 Schools selected <u>randomly</u> from all schools in the country are selected to participate in the assessment.
- Second Stage: Within the selected schools, 25 students are selected randomly from all eligible students. They will participate in the assessment.
- The sample design seeks to collect enough information about the population of interest without the need of a costlier census.

Sample Design (II)



- Under these circumstances, the sample of schools and students is <u>representative</u> of the school and student population under assessment.
- A representative sample is one where we can infer the results of the sample (student achievement, etc.) to the general population from which it was drawn.
- The sampling method aims to reduce **bias** and increase the **accuracy** of the sample estimate.

School Sample



- Stratification allows us to draw a representative sample of schools in the country based on characteristics of interest that, in view of authorities, might explain difference in student outcomes
 - Rural/Urban
 - Public / Private
 - Region (province)
- Each School in the sample is **representative** of 1 or more schools with similar characteristics in the country.
- Schools are selected <u>randomly</u> to give every school a chance to participate and to eliminate any discretion on the selection process.

Student Sample



- Within each of the 120 Schools, 25 students from each grade (4 and 6)must be selected <u>randomly</u> to participate in the assessment
 - Schools with small number of students (<=25) in each grade, all participate in the survey.
 - Schools with more than 25 students in each grade: only 25 participate, which must be selected randomly to avoid discretion on part of Test Administrator or School autohority.

Random Sampling Rationale



- The student sample is drawn randomly to ensure that every student in the target grade at selected schools has the same chance of participating.
- It may be that at your school we randomly chose a higher than average group of students and at another school we chose a lower than average group. That is what happens in random sampling!
- It is however essential for accurate estimates at the country level that the student sample within each school is truly random.
- It is very important that you <u>do not substitute or replace students under any</u> <u>circumstances</u>. Only the students listed on the Class Attendance Form can sit the assessment. If some students are absent then the assessment should proceed with a reduced number of students.

Student Sample



- Under optimal circumstances and to ensure a random sample of students within a school some information should be available before the visit to schools:
 - National Coordinators receive from selected schools the list of students enrolled in selected school.
 - National Coordinators submit to EQAP these lists. EQAP draws a random sample of 25 students on the list if enrolment >= 25.
 - EQAP returns to National Coordinators list of **sampled students** that will participate
 - National Coordinators send test Administrators to schools with list of sampled students.

Student Sample – Other Scenarios



- In some circumstances, it's not possible to gather in anticipation the list of eligible students to draw the student sample.
- For these, the approach varies: the Test Administrator must replicate the student sampling process once he arrives to the school, rather from a list of students previously selected by EQAP.
- In this regard, it is essential to <u>avoid</u> as much as possible the <u>discretion</u> from any of the partners on the selection of students.
- Test Administrator must take control of the sampling process, and try to follow a set of consistent rules that don't favour any particular student

Student Sample – No previous list



- So in case the only information we have about a particular school is only enrolment numbers:
 - EQAP will generate a Class Attendance List (CAL) with
 - Prepopulated ID codes
 - Placeholders for Student's demographic data (Name, gender, date of birth)
 - Also, they will send 25 test Booklets and Questionnaires with labels for the corresponding ID codes for each grade.
 - This information will be sent to the School with the Test Administrator.
 - Test administrator must fill out the information from the students.



- In all scenarios, the Test Administrator must ask the School Principal on arrival of the school the list of all eligible students in both grades under assessment.
- From this list the students will be selected to sit the test.
- If student is not present in the day of the test, this must be recorded.
- Once the lists are gathered, they must follow the instructions in the next slides.

Class Attendance List -Fill

Tracking



EDUCATIONAL QUALITY ASSESSMENT PROGRAMME CLASS ATTENDANCE LIST

Country: PAPUA Grade: 4		GUINEA :eam: 1			Scho Llas Tear
PPIN	*	FIRST NAME	LAST NAME	DATE OF BIRTH	GENDER: B or G
184010001401001	1	F1 Eden	LI Banuve	13/05/2006	B
184010001401002	2	F2	L2		
184010001401003	3	F3	L3		
184010001401004	4	F4	L4		
184010001401005	5	F5	L5		
184010001401006	6	F6	L6		
184010001401007	7	F7	L7		
184010001401008	8	F8	L8		
184010001401009	9	F9	L9		
	11			1 1	
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Student ID for		Name Placeholder to fill out on day of test administration		Place to Demogra	

Demographic information of the student

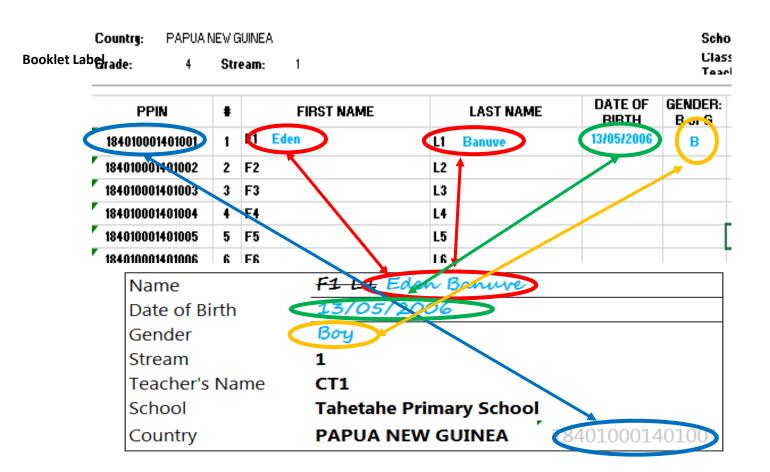
Booklet Label

Name	F1 L1		
Date of Birth	[placeholder for DOB]		
Gender	[placeholder for Gender]		
Stream	1		
Teacher's Name	CT1		
School	Tahetahe Primary School		
Country	PAPUA NEW GUINEA	184010001401001	



- Each Booklet will have a Label for identification with the student in the CAL
- The PPIN number highlighted here must match the one in the CAL.
- Each Booklet should be filled with the information filled out in the CAL





- Check that the PPIN in the CAL matches the one in the Booklet
- Fill out the Name of the Student in the Label
- Fill out the Date of Birth
- Fill out the Gender

Arrival of Test Administrator in School

- Once test Administrator arrives in school he might face three distinct scenarios:
- 1. School has one Class in Grade
 - 1. Number of students is 25 or less
 - 2. Number of students is larger than 25.
- 2. School has more than one Class in Grade
 - 1. Class size is 25 or less
 - 2. Class Size is more than 25

Scenario 1.1



- In this case, the school has one Class, and they have less than 25 students
- In this case, all students must participate
- Complete the CAL with the student names
- Update the student's data on the booklet labels according to the CAL
- Distribute the Booklets to the students to administer the test

Scenario 1.2



- In this case, the school has one Class, and they have more than 25 students
 - Request the List of students for the grade
 - Select the first 25 students in alphabetical order
 - Fill the Student Names in the Class Attendance List

Grade		4	
Class		1	
	First Name	🔽 Last Name 🔽	
1	Randy	Adkins	
2	Gladys	Alvarado	
3	Mack	Andrews	
4	Terrance	Arnold	
5	Greg	Benson	
6	Norma	Bryan	
7	Leigh	Burgess	
8	Pam	Cannon	
9	Rosalie	Clarke	
10	Everett	Crawford	
11	Karen	Diaz	
12	Bobbie	Fields	
13	Taylor	Frank	
14	Audrey	Freeman	
15	Shane	French	
16	Linda	Garner	
17	Gwen	George	
18	Kathleen	Guzman	
19	Jeffery	Henry	
20	Ashley	Hughes	
21	Jaime	Jacobs	
22	Lila	Jenkins	
23	Jessie	Lopez	
24	Sylvester	Mccormick	
25	Molly	Mclaughlin	
26	Lamar	Nash	
27	Matt	Nichols	
28	Freda	Norman	
29	Darlene	Osborne	
30	Geoffrey	Patterson	
	,		



- From the List of the Class, the first 25 Students are selected for the test
- The information must be filled in the CAL and the corresponding Booklet Labels as indicated Before

Country:PAPUA NEW GUINEAGrade:4 Stream:

PPIN	#	FIRST NAME	LAST NAME	DATE OF BIRTH	GENDER: B or G
184010001401001	1	Randy	Adkíns	9/03/2006	B
184010001401002	2	Gladys	Alvarado	22/06/2008	G
184010001401003	3	Mack	Andrews	29/03/2007	B
184010001401004	4	Terrance	Arnold	19/07/2007	B
184010001401005	5	Greg	Benson	26/01/2008	B
184010001401006	6	Norma	Bryan	18/05/2008	G
184010001401007	7	Leigh	Burgess	10/10/2007	B
184010001401008	8	Pam	Cannon	26/06/2007	B
184010001401009	9	Rosalíe	Clarke	22/03/2007	G
184010001401010	10	Everett	Crawford	24/01/2007	B
184010001401011	11	Karen	Díaz	13/10/2007	G
184010001401012	12	Bobbie	Fields	29/09/2007	В
184010001401013	13	Taylor	Frank	22/02/2006	B
184010001401014	14	Audrey	Freeman	29/05/2007	G
184010001401015	15	Shane	French	11/08/2008	B
184010001401016	16	Línda	Garner	29/09/2007	G
184010001401017	17	Gwen	George	6/11/2006	G
184010001401018	18	Kathleen	Guzman	10/08/2008	G
184010001401019	19	Jeffery	Henry	31/03/2006	B
184010001401020	20	Ashley	Hughes	16/01/2006	G
184010001401021	21	Jaíme	Jacobs	5/03/2006	В
184010001401022	22	Líla	Jenkíns	7/02/2008	G
184010001401023	23	Jessie	Lopez	14/07/2006	G
184010001401024	24	Sylvester	Mccormick	16/09/2008	B
184010001401025	25	Molly	Mclaughlín	25/12/2006	G



- The data of the first 25 students must be filled in the CAL
- Once this is done, the corresponding Booklets must be assigned to each student in this list as explained before

Scenario 2.1



- In this case, the school has more than one Class, and they have 25 students or less
 - In this case, an entire class must be selected first.
 - For this purpose, select the class of the teacher <u>whose last name is the first</u> <u>in alphabetical order</u>.
 - The corresponding class sits for the test.

Class List - Selection



• This school has 4 classes (streams)

# 🖵	First Name 🔽	Last Name 星
1	Jamie	Hall
2	Sandra	Crawford
3	Katrina	Guerrero
4	Joseph	Graham

- Class 2 has the teacher with the first last name ordered alphabetically
- This Class is selected for the test
- All students in the class (25 or less) sit the test

Scenario 2.2



- In this case, the school has more than one Class, and they have more than 25 students
 - In this case, an entire class must be selected first.
 - For this purpose, select the class of the teacher <u>whose last name is the first</u> <u>in alphabetical order</u>.
 - The corresponding class sits for the test.

Conclusion



- More information can be seen in the following documents:
 - PILNA 2018 Instructions for TS-Only Scenario4.docx
 - Instructions for Test Administrators
 - Instructions for School Coordinators