SELF-LEARNING HOME TASK (SLHT)

Subject: Practical Research 2	Grade Level: <u>12</u>	Quarter: <u>2</u>	Week: <u>4</u>	
MELC: <u>Collects data using appropriate instruments</u>				
Competency Code: <u>CS_RS12-IId-g</u>	<u>e-1</u>			
Name	Section	Date		
School	District			
A. Readings				
	Data Collection			
 Use appropriate res Collect, tabulate, ta 	ecified research questic ents that are either developed ide on the following qu 3) Who will collect the ments comprise quest and, data collection appresent eraction with individual duals in a group setting. a research instrument, the research questions. conduct the data collect earch instruments. lly, and analyze the dat and reliability of the collect	ons or objectives. This eloped or adopted. In a lestions: (1) Which da data? (4) When to col stionnaires, interview proaches for qualitat ils on a one to one bas he following steps are ion.	s can be done collecting the ata to collect? llect the data? s, tests, and tive research sis, (b) and or	

Research Instruments

- **Questionnaires.** It consists of a series of questions about a research topic to gather data from the participants. It consists of indicators that are aligned to the research questions. Gathering of information can be carried out in the following methods: face to face, by telephone, or through e-mail, messenger, social media post, or using computer programs or forms (Barrot, 2018, p 138).
- In quantitative research, questionnaires use the following approaches: (1) scale (usually Likert scale); and (2) conversion of responses into numerical values, e.g. strongly as 5, agree as 4, neutral as 3, disagree as 2, and strongly disagree as 1.
- The terms survey and questionnaire have different meanings. A questionnaire is an instrument used to collect data while a survey is a process of collecting, recording, and analyzing data. Questionnaires can be structured, semi-structured, or unstructured.
- The first, **structured questionnaires** employ closed-ended questions. **Unstructured questionnaires**, on the other hand, use open-ended questions in which the research participants can freely answer and put his thoughts into it. Lastly, **semi-structured questionnaires** are combinations of both the structured and unstructured ones. Structured type is commonly used in quantitative studies because it is easier to code, interpret objectively, and, most of all, easier to standardize.

Advantages of Using Questionnaire

1. Data can be quickly gathered from a big number of participants.

2. The participants are encouraged to open-up to the researchers since their identity can be made anonymous.

Disadvantages of Using Questionnaire

- 1. The questions can be interpreted differently by the participants.
- 2. Some participants will not be able to complete the required responses.
- 3. Some questionnaires will not be returned on time.
- 4. Some questionnaires will be lost.
- 5. The answers from participants may lack depth.

Guidelines in Using Questionnaires for Data Collection

- 1. Choose the method of administering the questionnaire.
 - a. Face-to-face Method. Use this when you need to capture the emotions, behavior, and non-verbal cues of the participants

- b. Online Method. Use this when behavior and non-verbal cues need not be taken
- 2. Divide your questionnaire into two or three parts.
 - a. Personal information. This section which contains background information of the participants. (Names are optional)
 - b. Main section. This lists the specific questions or indicators.
 - c. Open-ended question section. This contains additional information that might be needed. (This applied only for quantitative research)
- 3. Make sure to craft questions and choices that are aligned with specific research questions or objectives.
- 4. Provide specific and clear directions for respondents in answering the questionnaire.
- 5. Use routing (directing) technique if there is a need to skip some items in the questionnaire.
- 6. Begin with the general questions first followed by the specific ones.
- 7. Prefer to have brief, clear, and concise questionnaire. Use simple terms.
- 8. Predetermined responses or choices should match the nature of the questions.
 - a. If the content is about belief, use agreement (strongly agree, agree, neutral, disagree, strongly disagree)
 - b. If the questionnaire is about behavior, use extent (very great extent, great extent, moderate extent, small extent, none at all)
 - c. If questions are about frequency, use frequency (always, frequently, sometimes, seldom, never)
 - d. If the content is about quality, use quality (excellent, very good, good, poor)
 - Later, these responses will be translated into numerical values (e.g. five-point Likert scale)
- 9. Avoid negative statements unless necessary.
- 10. Avoid leading and biased, double-barreled, and very sensitive questions.
- 11. Do not split the questions or choices over two pages.
- 12. If possible, schedule an appointment before distributing the questionnaires.
- 13. Attach a cover letter to the questionnaire especially for agency connected respondents.
- 14. Make a follow-up on the participants who did not return the questionnaire.
- 15. Tally and encode the data immediately once you have collected them and archived them digitally.

- **Tests** are used for assessing various skills and types of behavior as well as for describing some characteristics. There are two types of tests used in quantitative research: Standardized test and Non-standardized test.
 - **Standardized test** is scored uniformly across different areas and groups. It is usually administered by institutions to assess a wide range of groups such as students and test-takers. It is considered more reliable and valid. Examples are Achievement test, University Entrance Exam, Personality Tests, and the likes.

Non-standardized test may not be scored uniformly. It is administered to a certain set of people.

Types of Test Questions

- 1. Recall Questions. It requires participants to retrieve information from memory (e.g. fill-in-the blank test, identification test, enumeration test, etc.)
- 2. Recognition Questions. It provides respondents with given choices to select from as the best or correct choice (e.g. multiple-choice test, true or false test, yes or no test, etc.)
- 3. Open-ended Questions. It allows the respondents more freedom in their responses, expressing their thoughts and insights (e.g. essay writing tests and other performance-based tests.)

Туре	Subtype	What the Participants will Do	Example
Recall	Cloze test	Supply words or phrases that have been deleted/removed from a test.	Questionnaires can be structured, semi-structured, or
	Identification	Provide an answer to the given question using pure recall.	What type of questionnaire employs close-ended questions?
	Enumeration	List down the answers, whether chronologically or not.	List the steps in conducting quantitative research.

The following table shows the types of test and examples

Recognition	Multiple	Choose the best/	Which of the following does NOT		
	Choice	correct answer	belong to the group? A. Collecting		
		from three to	data		
		five options.	B. Tabulating data		
			C. Interpreting data		
			D. Differing data		
	Matching	Match the items	Match the terminologies in Column		
		in Column A	A with their synonyms in Column		
		with the items in	B. Column A Column B		
		Column B.	1. Data A. Participants		
			2. Respondents B.		
			Representative		
			3. Sample C. Information		
I	Dichotomous	Choose an	Write TRUE on the space before		
		answer from	each number if the statement is		
		two options	correct and FALSE if it is incorrect.		
		either	1. Data collection is the first		
		True or False or	step in conducting quantitative		
		True or False or Modified True	step in conducting quantitative research.		
Open-	Nonperform	Modified True			
Open- Ended	Nonperform ance based	Modified True or False.	research.		
-	-	Modified True or False. Provide a	research. Explain the process of obtaining the		
-	-	Modified True or False. Provide a lengthy answer	research. Explain the process of obtaining the		
-	-	Modified True or False. Provide a lengthy answer in writing or	research. Explain the process of obtaining the sample size from the population.		
-	ance based	Modified True or False. Provide a lengthy answer in writing or orally.	research. Explain the process of obtaining the		
-	ance based Performance	 Modified True or False. Provide a lengthy answer in writing or orally. Perform a task 	research. Explain the process of obtaining the sample size from the population. Present a role play about conducting		
-	ance based Performance	Modified True or False. Provide a lengthy answer in writing or orally. Perform a task where they are	research. Explain the process of obtaining the sample size from the population. Present a role play about conducting an interview on study habits among		
-	ance based Performance	Modified True or False. Provide a lengthy answer in writing or orally. Perform a task where they are expected to	research. Explain the process of obtaining the sample size from the population. Present a role play about conducting an interview on study habits among		

Source: (*Barrot, 2018, p 146*)

Interview. A **quantitative interview** is a method of collecting data about an individual's behaviors, opinions, values, emotions, and demographic characteristics using numerical data.

Difference between Quantitative and Qualitative Interviews

Quantitative Interviews	Qualitative Interviews
It uses closed-ended questions.	It uses open-ended questions.
It contains a rating scale or rubric.	No rating scale or rubric needed.

Responses are numerical.	Responses are non-numerical.
A large sample size is used.	Small sample size is used.
Structured type is used to minimize "interviewer	Unstructured, semi-structured,
effect", which means that the responses of the	informal interviews, and focus
participants may be affected by the behavior	group discussions (FGD) are used.
displayed by the researcher on the manner that	
the questions are presented.	

The questionnaire and quantitative interview are both highly structured, but here is a distinction between the two:

Quantitative Interviews	Questionnaires
Items are read to the participants.	Participants answer on their own.
Researchers may ask follow-up questions.	Researchers may not ask
	follow-up questions.
Useful when the target participants can	Not applicable for blind and uneducated
not answer a printed or encoded	(no read, no write) participants.
questionnaire (blind or uneducated).	

- **Observation** is another method of collecting data that is frequently used in qualitative research. However, it can be used in quantitative research when the observable characteristics are quantitative in nature (e.g. length, width, height, weight, volume, area, temperature, cost, level, age, time, and speed)
- Observation allows the researcher to observe the actual event or phenomenon. It has greater flexibility in the observation method. However, observation may lack participant validity and may be prone to the Hawthorne effect phenomenon. Furthermore, it is more exhausting and time-consuming especially when observations need to be conducted for many years).

Forms of Observation

1. **Controlled Observation**. It is usually used in experimental research and is done under a standard procedure. It provides more reliable data (obtained through structured and well-defined process). The procedure can be replicated, and the data are easier to analyze. Lastly, the observer performs a non-participant role (i.e. does not interact with the participants).

2. **Natural Observation.** It is carried out in a non-controlled setting. It has greater ecological validity (i.e. flexibility of the findings to be generalized to reallife contexts). It also responds to other areas of inquiry not initially intended by the researcher. Its major limitation is its strength to establish a causal relationship due to the presence of extraneous variables which can affect the behavior of the participants .

3. **Participant Observation.** It allows the observer to become a member of the group or community that the participants belong to. It can be performed **covertly** (i.e. participants are not aware of the purpose behind the observation. It can be done also **overtly**, wherein participants know the intention or objectives of the observation.

Observational Role	Description
Complete observer	Observe the spontaneous natural behavior of the participants with as few external factors affecting it as possible. The observer is neither seen nor noticed by the participants. The participants are less prone to the Hawthorne effect.
Observer as participant	Researcher does not prioritize recording spontaneous or natural behavior with as few external factors affecting it as possible. The observer is known and recognized by the participants as part of their group or community but has limited interaction with them.
Participant as observer	Researcher does not primarily aim to capture spontaneous or natural behavior. The observer is considered a researcher and not a member of the group or community which is being investigated. However, the observer is fully engaged with the participants.
Complete participant	Researcher is to observe the spontaneity or natural behavior of the participant with as few external factors affecting it as possible. Taking this role raises ethical issues about possible deception. He acts like an "undercover" member of the community. He fully involved with the participants who are unaware that they are being observed.

Different Roles of a Researcher during a Participant Observation

B. Exercises

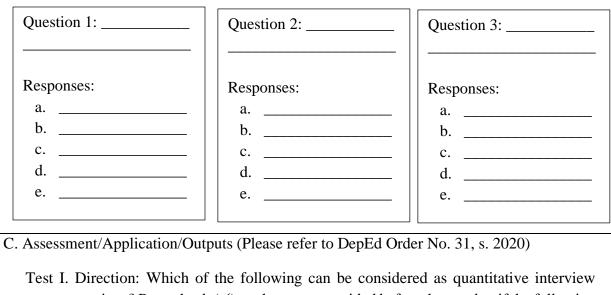
Exercise 1

Direction: Look at the questionnaire below. Answer the questions that follow by checking the box that best describes you.

A Questionnaire to Review Your Study Habits					
Constructs	Strongly Agree	Agree	Undecided	Disagree	Strongly Disagree
1. I study where there is a good lighting.					
2. I study in a room where the temperature is cool.					
3. The desk where I study is always clear from distractions.					
4. I use earplugs to minimize distracting sounds.					
5. I study facing a wall.					
6. I don't do other things while I am studying.					
7. I prepare ahead of time all the materials that I will need for studying.					
8. I avoid wasting my times on Facebook, etc. in between my study time.					
9. I review my notes after class and use it for review.					
10. I take breaks from time to time during study time.					

Exercise 2

Direction: Directions: Interview five (5) families in your barangay or other possible options may be presented depending on the current situation in your community. Create three (3) interview questions regarding their situation during the COVID-19 pandemic crisis. Make sure that the responses of your interview questions are **quantifiable**.



est I. Direction: Which of the following can be considered as quantitative interview questions? Put a check (\checkmark) on the space provided before the number if the following questions illustrate quantitative nature and mark it with X if it is not.

_____1. How often do you buy mobile accessories for social acceptance purposes?

- _____ 2. How regularly do you go to malls in a week?
- _____ 3. How much would you be willing to pay for a mobile app for dating?
- _____ 4. What are the differences in attitude towards shopping between men and women?
- 5. What is the difference in the number of telephone calls made between men and women?
- _____ 6. What is the relationship between a grade in math and level of class participation among Grade 7 students?
- _____7. What is the relationship between the number of COVID-19 cases and travel exposure?
- 8. What is the relationship between job satisfaction and salary among public school teachers?
- _____9. Can you describe how you first became aware of the COVID-19 crisis?
- _____ 10. Can you talk about your thoughts on how the COVID_19 pandemic affects a person, a family, a school, or a community?
- ____ 11. How do you see yourself today, in terms of the "new normal"?
- _____12. How does your family view your gender crisis?

13. What does your school or community do to educate you about the COVID-			
19 pandemic crisis? 14. Can you talk about whether you feel safe or not in your school or community			
after the enhanced community quarantine was lifted?			
15. Which factors mostly distort the approval rating of the president?			
Test II. Direction: What type of observation is illustrated in the following observation			
notes? Write the letter of your choice on the space provided before the number.			
Choose from the choices below:			
A. complete observer	B. observer as participant		
C. participant as observer	D. complete participant		
1. A doctor watching a patient's rea	action to a medication.		
2. Pilots watching their monitors for	-		
	daily data on bacteria growth at the Bio laboratory.		
4. A guidance counselor watching a 5. An adviser watching her student	a friend's reaction to her <i>barkada's</i> confession.		
-	nager observing the conversation of the interviewer		
and the applicant to determine th			
7. A principal observing a math to	eacher giving a lesson to her class to evaluate her		
performance as an educator.			
9. An actress is watching her movie	n interact with other children on the playground.		
	went to BFAR to perform certain duties the workers		
are doing.			
D. Suggested Enrichment/Reinforcement A	ctivity/ies		
Direction. Perform the following tasks. You may write or encode your answer in a long			
bond paper. Submit your output to your teacher for checking.			
Tasks:			
1. Decide what type of data collection instrument will you use for your current			
study.			
2. Explain why you will use this specific type of data collection.			
3. Create your own research instrument as basis for your data gathering. Make sure that your questions are aligned to your research questions.			

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GUIDE

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