

# **Practical Research 2**

Second Quarter-Module 7  
Research Methodology



**Writer:**

Nereo S. Saliva

**Illustrator:**

Marexcza Z. Salinas

**Layout Artist:**

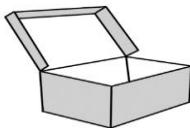
Marexcza Z. Salinas



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## What I Need to Know

Hello Grade 12 researchers! In this module for the 2<sup>nd</sup> grading period, you will learn how to:

### Present Written Research Methodology (CS\_RS12-IIa-c-7)

You can say that you have understood the lesson in this module if you can already:

1. describe the term research methodology;
2. enumerate the different subsections in research methodology; and
3. write the research methodology chapter of your research.



## What I Know

Answer the following questions. Select your answers from the options provided. Encircle the letter of your choice.

1. What part of the research paper describes the sources of data?
  - A. Introduction
  - B. Conclusion
  - C. Methodology
  - D. Results
2. What subsection in the research methodology chapter can be read first by the reader?
  - A. Abstract
  - B. Introduction
  - C. Research design
  - D. Statistical tools
3. In discussing the research methodology, what should be provided in the discussion?
  - A. Acknowledgment
  - B. Citation
  - C. Graph
  - D. Table
4. What subsection can you read the sampling technique used by the researcher?
  - A. Introduction
  - B. Research design
  - C. Sources of data
  - D. Testing of hypothesis
5. Which of the following does NOT belong to the group?
  - A. Data analysis
  - B. Research design
  - C. Scope and delimitation
  - D. Sources of data



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## Lesson 1

# Research Methodology



## What's In

Before we start with the lesson, let us first review the different statistical tools. Complete the paragraph below by discussing the importance of using the right statistical tools in quantitative research writing.

As a researcher, I make sure that I use the right statistical tools by

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## What's New

### A. Before Reading Activity

Do you still remember how your science teacher discussed the skeletal system? Can you briefly explain the importance of bones in the human body?

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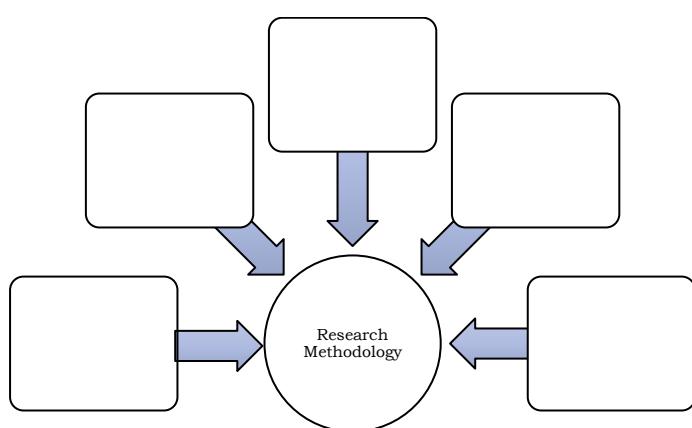
### B. During Reading Activity

The research methodology is a chapter in your research that discusses the various tools, techniques, and procedures used to conduct the research study. As a researcher, this is where you outline in more detail your well-planned structure that will help you find answers to your formulated research problem.

To help you appreciate the importance of research methodology, think how engineers and architects exert effort in preparing a detailed planning before building their project.

### C. After Reading Activity

Provide appropriate words that will describe the term *research methodology*.



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## What is It

### Writing the Research Methodology

Research methodology or method is a chapter of your research that plays an important role in your study. It provides relevant information to your reader in terms of the validity and reliability of your study. You must remember that it must be supported by literature with proper citations and justification of the methods that you applied in the course of your research writing. Below are the components of this chapter.

- **Research Design**

- ✓ Indicate the research approach.
- ✓ Justify your preferred research design.

- **Sources of Data**

- ✓ Describe the population, the sampling techniques, and define the number of participants included in your study.

- **Data Gathering Instruments**

- ✓ Describe the method of collecting data and the data gathering instrument to be used.
- ✓ Discuss the major contents of the instrument including the scales and range that will be used to measure the variables of the study.

- **Data Gathering Procedures**

- ✓ Outline the research procedures including the steps to be taken in administering the data collection. Here, proper communication channels must be observed.

- **Data Analysis Tools**

- ✓ Outline the statistical tools that you intend to utilize and provide the rationale.



## What's More

Answer the activities that follow to practice your knowledge and skill about the topic about research method.

### Activity 1

Enumerate the subsections of Research Methodology

- 1.
- 2.
- 3.
- 4.
- 5.



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## **Activity 2**

Answer the following questions about your research.

1. What research approach will you use?

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2. What research design will you use?

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3. Who are your research participants?

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4. Will you be working on a population or a sample?

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5. If your answer is sample, what sampling technique will you use? Probability sampling or non-probability sampling? (Pls. specify the type)

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6. How will you collect your data?

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7. What research instrument will you use?

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8. What type of hypothesis will you formulate?

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9. What is your significance level?

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10. What are the statistical tools that you will use in order to treat your collected data?

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## **Activity 3**

Provide the following information of your research methodology.

Research Design:

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Sources of Data:

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Data Gathering Instruments:

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Data Gathering Procedures:

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Data Analysis Tools:

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## What I Have Learned

In this module, you have studied about planning the written research methodology. Express what you have learned by answering the questions below.

1. What are the subsections of research methodology?

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2. Why is it important to plan your research methodology?

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## What I Can Do

Apply what you have learned in this module by doing this activity. Present your Research Methodology. Use the rubric as your guide.

<b>Criteria</b>	<b>Excellent (15-20 Pts.)</b>	<b>Good (8-14 Pts.)</b>	<b>Needs Improvement (1-7 Pts.)</b>	<b>Merit Points</b>
Research Design	Design is appropriate for the study. Demonstrates understanding of research components and the components are complete.	Design is appropriate for the study. Components are fairly complete.	Design is inappropriate for the study. Components are not complete.	
Sources of Data	Sample is explained well and correct use of sampling technique.	The sample is fairly described and correct use of sampling technique.	Shows no familiarity with sampling procedures and techniques.	
Data Gathering Instrument	Appropriate use of data gathering instrument and explained thoroughly.	Appropriate use of data gathering instrument but not sufficiently explained.	Inappropriate use of data gathering instrument.	
Data Gathering Procedures	Adequately discussed the data gathering procedures.	Discussed the data gathering procedures but lacked details.	Lack of discussion on data gathering procedures.	
Data Analysis Tools	Appropriate use of statistical tools with sufficient justification.	Appropriate use of statistical tools, but lack of justification.	Data analysis is inappropriate for the problem and hypothesis.	



## Assessment

Answer the following questions. Select your answers from the options provided. Encircle the letter of your choice.

- Which chapter of a research can readers validate the study?
  - Conceptual Framework
  - Introduction
  - Method
  - Summary



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2. What subsection of research methodology explains the treatment of the collected data?
  - A. Conclusion
  - B. Data analysis tools
  - C. Research design
  - D. Sources of data
3. Which follows the data gathering instrument in research methodology?
  - A. Data analysis tools
  - B. Data gathering procedure
  - C. Research design
  - D. Sources of data
4. Which of the following is NOT included in explaining the data gathering instrument?
  - A. Content of the instrument
  - B. Data gathering instrument
  - C. Method of collecting data
  - D. Sampling technique
5. What subsection of research methodology do you discuss the research approach of your study?
  - A. Date gathering instrument
  - B. Research design
  - C. Source of data
  - D. Statistical tool



## Additional Activities

Make a compilation of chapters 1, 2, and 3 of your study.

Post-test  
Practical Research 2  
Quarter 2- Module 7 Research Methodology

Write the letter of the correct answer on the space before the number.

1. Which of the following is NOT included in discussing the sources of data?

A. Computation of sample	C. The study population
B. The sample	D. Statistical tools



2. What part of the research paper describes the sources of data?  
D. Introduction  
E. Conclusion  
C. Methodology  
D. Results and Discussion
3. In writing the Research Methodology, what comes after the chapter introduction?  
A. Data Analysis Tools  
B. Data gathering Instruments  
C. Research Design  
D. Source of Data
4. What subsection in the research methodology chapter can be read first by the reader?  
E. Abstract  
F. Introduction  
G. Research design  
H. Statistical tools
5. In discussing the research methodology, what should be provided in the discussion?  
A. Acknowledgment  
B. Citation  
C. Graph  
D. Table
6. What subsection can you read the sampling technique used by the researcher?  
A. Introduction  
B. Research design  
C. Sources of data  
D. Testing of hypothesis
7. What is the last part of Research Methodology chapter?  
A. Data Analysis Tools  
B. Data gathering Procedures  
C. Research Design  
D. Source of Data
8. Which of the following does NOT belong to the group?  
A. Data analysis  
B. Research design  
C. Scope and delimitation  
D. Sources of data
9. Which chapter of a research can readers validate the study?  
A. Conceptual Framework  
B. Introduction  
C. Method  
D. Summary
10. Which of the following best explains the importance of Research Methodology section?  
A. It will show the validity and reliability of your study.  
B. It will guide the researcher if doing his or her study.  
C. It provides information to your reader.  
D. It will make your study longer.

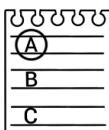


11. What sub-section of research methodology explains the treatment of the collected data?
- A. Conclusion
  - B. Data analysis tools
  - C. Research design
  - D. Sources of data
12. Which follows the data gathering instrument in research methodology?
- A. Data analysis tools
  - B. Data gathering procedure
  - C. Research design
  - D. Sources of data
13. Which of the following is NOT included in explaining the data gathering instrument?
- A. Content of the instrument
  - B. Data gathering instrument
  - C. Method of collecting data
  - D. Sampling technique
14. Using IMRaD format in structuring your research study, what chapter is the methodology?
- A. Chapter I
  - B. Chapter II
  - C. Chapter III
  - D. Chapter IV
15. What subsection of research methodology do you discuss the research approach of your study?
- A. Date gathering instrument
  - B. Research design
  - C. Source of data
  - D. Statistical tool



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## Answer Key

# PRACTICAL RESEARCH 2

## Second Quarter- Module 7

### Research Methodology

(Answers may vary)

#### Activity 2

5. Data Analysis Tools
4. Data Gathering Procedures
3. Data Gathering Instrument
2. Sources of Data
1. Research Design

#### What's More- Activity 1

- C. (Answers may vary)
- B. During Reading Activity
- A. (Answers may vary)

#### What's New - Activity

(Answers may vary)

#### What's In

5. C
4. C
3. B
2. C
1. C

#### Assessment

(Answers may vary)

#### What I Can Do

(Answers may vary)

#### Activity 3

#### What I Know



## References

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Creswell, J.W. Research Design: Qualitative, Quantitative, and Mixed Method Approaches, 4<sup>th</sup> ed. Los Angeles: Sage, 2014.

Russell, B. Social Research Methods: Qualitative and Quantitative approaches Los Angeles: Sage, 2013.

### Internet Sources

<https://www.springboard.com/blog/quantitative-data/>

<https://www.researchgate.net/publication/325846997>



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## **Development Team of the Module**

**Writer:** Nereo S. Saliva (CIS)

**Editor:** Nieves T. Salazar, Ph.D. (PHS)

**Internal Reviewer:** Janet S. Cajuguiran (EPS-English)

**Illustrator:** Marexcza Z. Salinas (PHS)

**Layout Artist:** Marexcza Z. Salinas (PHS)

**Management Team:**

**Sheryll T. Gayola**

Assistant Schools Division Superintendent  
OIC, Office of the Schools Division Superintendent

**Elisa O. Cerveza**

Chief, Curriculum Implementation Division  
OIC, Office of the Assistant Schools Division Superintendent

**Janet S. Cajuguiran**

Education Program Supervisor-English

**Ivy Coney A. Gamatero**

EPS – LRMS

**For inquiries or feedback, please write or call:**

Schools Division Office- Marikina City

191 Shoe Ave., Sta. Elena, Marikina City, 1800, Philippines

Telefax: (02) 682-2472 / 682-3989

Email Address: [sdo.marikina@deped.gov.ph](mailto:sdo.marikina@deped.gov.ph)



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