

HOW TO WRITE A GOOD PROBLEM STATEMENT

Writing a good problem statement in a thesis is crucial as it sets the stage for your research, clearly defining the issue your study will address. Here are the steps and tips to help you craft an effective problem statement:







Steps to Write a Problem Statement

Contextualize the Problem

Introduce the broad area of research. Provide background information to help the reader understand the context.

Highlight the importance of the problem. Explain why this issue is significant in your field of study.





Specify the Problem

Clearly define the problem. State what is wrong, lacking, or needing improvement.

Be specific and concise. Avoid vague language and ensure the problem is narrowly focused.





Show the Impact

Explain the consequences of the problem. Discuss the negative effects if the problem is not addressed.

Identify the affected parties. Specify who or what is impacted by the problem (e.g., specific communities, industries, or processes).





Establish the Gap in Knowledge

Review existing literature. Highlight what has been done and where the gaps or limitations lie.

Position your research. Show how your study will address these gaps or limitations.





State the Research Objectives

Outline your research aims. Briefly mention what you intend to achieve with your study.

Connect the objectives to the problem. Ensure the research goals directly address the identified problem.





Example of a Problem Statement Contextualize the Problem:

"In recent years, there has been a growing concern over the rising levels of air pollution in urban areas. Various studies have shown that air pollution has severe health impacts, leading to respiratory diseases, cardiovascular problems, and premature deaths."





Specify the Problem:

"Despite numerous measures taken by governments to mitigate air pollution, many urban centers continue to exceed safe air quality levels. The current policies focus primarily on reducing emissions from vehicles and industries, but there is a lack of attention to indoor air pollution, which can be equally harmful."





Show the Impact:

"Indoor air pollution affects millions of people who spend a significant portion of their time indoors, especially vulnerable populations such as children, the elderly, and individuals with preexisting health conditions. If left unaddressed, indoor air pollution will continue to contribute to the growing public health crisis."







Establish the Gap in Knowledge:

"While extensive research has been conducted on outdoor air pollution, there is a notable lack of comprehensive studies on indoor air quality in residential buildings. Existing research often overlooks the combined effects of indoor pollutants and their interactions with outdoor air quality."





State the Research Objectives:

"This study aims to investigate the levels of indoor air pollution in residential buildings in urban areas and assess the effectiveness of current mitigation strategies. By identifying the key sources and factors contributing to indoor air pollution, this research seeks to develop targeted interventions to improve indoor air quality and public health outcomes."





Tips for Writing a Problem Statement

Be clear and concise. Avoid unnecessary jargon and ensure your problem statement is easy to understand.

Stay focused. Keep the problem statement specific to the core issue you are addressing.

Use evidence. Support your claims with data or references to existing research to establish the importance of the problem.





Highlight the relevance. Make it clear why solving this problem is important for your field of study and its broader implications.

Align with research objectives. Ensure your problem statement is directly linked to the objectives and goals of your research.

By following these steps and tips, you can write a compelling problem statement that sets a strong foundation for your thesis.





PROBLEM STATEMENT WRITING STYLE

The language for a problem statement should be clear, concise, and specific. It should effectively communicate the issue at hand, its significance, and the need for your research. Here are key aspects to consider when writing the language for a problem statement:





Key Aspects of the Language for a Problem Statement

<mark>Clarity</mark>

Use straightforward and unambiguous language.

Avoid jargon or technical terms that may not be easily understood by a general audience.





Conciseness

Be brief and to the point.

Eliminate unnecessary words or overly complex sentences.







Clearly define the problem, avoiding vague or broad statements.

Specify the scope and context of the problem.





Objective and Neutral Tone

Present the problem in an objective manner.

Avoid subjective or biased language.







Convey the importance of the problem.

Highlight the consequences or impact if the problem is not addressed.





Relevance

Relate the problem to the broader field of study.

Ensure the problem is pertinent to current issues or gaps in knowledge.





Example of Effective Language for a Problem Statement Example 1:

Contextualization and Importance:

"Over the past decade, the incidence of type 2 diabetes has significantly increased worldwide, posing a major public health challenge. This rise has been particularly pronounced in urban populations due to lifestyle changes and increased sedentary behavior."







"Despite numerous public health initiatives aimed at promoting physical activity and healthy eating, the prevalence of type 2 diabetes continues to climb. Current interventions have not effectively reached or influenced high-risk groups, especially in low-income urban areas."





Impact:

"If this trend continues, it will result in higher healthcare costs, reduced quality of life for affected individuals, and increased mortality rates. The failure to address this issue adequately could lead to a public health crisis."





<mark>Gap in Knowledge:</mark>

"Previous studies have predominantly focused on broad population-level interventions without considering the unique barriers faced by low-income urban residents. There is a lack of targeted research on the specific challenges and needs of these high-risk groups."



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Research Objectives:

"This study aims to identify the barriers to effective diabetes prevention and management in low-income urban populations and develop targeted intervention strategies. By addressing these gaps, this research seeks to reduce the incidence of type 2 diabetes and improve health outcomes in these communities."







Contextualization and Importance:

"Climate change has led to more frequent and severe weather events, impacting agricultural productivity globally. Smallholder farmers, who depend heavily on consistent weather patterns, are particularly vulnerable to these changes."







"In many developing countries, smallholder farmers lack access to resources and knowledge to adapt to changing climatic conditions. Current agricultural policies and support systems are insufficient in addressing the specific needs of these farmers."





Impact:

"Without effective adaptation strategies, smallholder farmers will face reduced crop yields, leading to food insecurity, loss of income, and increased poverty levels. This not only affects the farmers but also threatens national food security."





<mark>Gap in Knowledge:</mark>

"While there has been extensive research on agricultural adaptation to climate change, there is a significant gap in studies focusing on smallholder farmers in developing countries. Specifically, there is a need for research that explores context-specific adaptation strategies that are feasible and sustainable for these farmers."



Eredentials

DR. SYAHRULLAIL SAMION

Research Objectives:

"This study seeks to evaluate the current adaptive practices of smallholder farmers in developing countries and identify the most effective strategies for enhancing their resilience to climate change. The research aims to provide policy recommendations to support these farmers in adapting to changing climatic conditions."





Tips for Crafting the Language

Use active voice. This makes your statements clearer and more direct.

Avoid redundancy. Each sentence should add new information or insight.

Use precise terminology. Ensure that your language accurately reflects the problem and its context.





Maintain a formal tone. This is particularly important in academic writing to convey professionalism.

By focusing on clarity, conciseness, specificity, and relevance, you can write a problem statement that effectively sets the stage for your research and clearly communicates the significance of the issue you are addressing.

