

# Worksheet – Research Findings in Problem Solving

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Unit: Application of Critical Thinking | Duration: 1 Hour | Mode: Individual or Pair Work

This worksheet helps you understand how to use research data and survey findings to solve real-world problems. You will analyze short case studies, extract key findings, and apply evidence-based reasoning to create solutions.

## Example Research:

A survey of 200 students about classroom learning methods shows:

- 60% prefer interactive lessons.
- 25% prefer lectures.
- 15% prefer online self-learning.

Now answer:

a) What is the key finding from this research?

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b) Suggest one solution the teacher can use based on this data.

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## 3. Case Study Analysis

Analyze the case study below and fill out the table.

Case: The college library receives frequent complaints that students rarely visit. A survey of 100 students shows:

- 55% say the library timings clash with their classes.
- 30% say the library lacks updated materials.
- 15% say they prefer online resources.

| Question   | Your Answer |
|--|-------------|
| 1. What is the main problem identified?            |             |
| 2. What are the key findings from the research?    |             |
| 3. Suggest 2 possible solutions based on findings. |             |

#### 4. Data-to-Decision Activity

Below are sample survey results. Use them to design a solution.

Survey on Campus Cleanliness (150 responses):

- 40% say there are not enough dustbins.
- 35% say waste collection is irregular.
- 25% say students don't follow cleanliness rules.

Now answer:

a) What are 2 key findings from the data?

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b) Suggest 2 practical actions to solve this issue.

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c) Which test of critical thinking will you apply to check your solution (Clarity, Accuracy, Logic, etc.)?

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#### 5. Reflection Questions

1. Why is it important to use data instead of assumptions when solving problems?
2. How can research findings be misused or misunderstood?
3. What value (fairness, honesty, accuracy) is most important in interpreting research, and why?