



Introduction to Data Analysis (10 minutes)

In pairs, discuss and write your thoughts on the following questions:

1. What is data analysis and why is it important in real-life scenarios?
2. How can we collect and analyze data to answer questions or solve problems?
3. What are some common tools and techniques used in data analysis?

Data Collection Activity (20 minutes)

Group Task:

In groups of 3-4, collect data on a specific topic, such as the number of hours spent on social media per day.

- Design a survey or questionnaire to collect data from your classmates.
- Record the data in a table or spreadsheet.
- Calculate the mean, median, and mode of the data.

Name	Hours Spent on Social Media

Data Analysis Activity (25 minutes)

Using the data collected, work with your group to answer:

1. What is the mean, median, and mode of the data?

2. How can we use graphs and charts to visualize the data?

3. What conclusions can we draw from the data?

Graphical Representation (15 minutes)

Choose *ONE* of the following activities:

1. Create a bar graph to display the data.
2. Draw a pie chart to show the distribution of the data.
3. Make a line graph to illustrate the trend of the data.

[Space for graphical work]

Reflection and Conclusion (10 minutes)

Individual Reflection:

1. What did you learn about data analysis and graphical representation?

2. How can you apply this knowledge in real-life scenarios?

3. What questions do you still have about data analysis and graphical representation?

Assessment and Evaluation (15 minutes)

Work with your group to evaluate:

1. The accuracy of the data collected.
2. The effectiveness of the graphical representation.
3. The conclusions drawn from the data.

Homework and Extension Activities (10 minutes)

Choose *ONE* of the following activities:

1. Collect data on a different topic and analyze it using statistical tools.
2. Create a presentation to share your findings with the class.
3. Design a survey to collect data on a specific issue and analyze the results.

[Space for homework and extension activities]

Critical Thinking and Problem-Solving (15 minutes)

Work with your group to solve:

1. A real-life problem using data analysis and graphical representation.
2. A case study on a specific issue and propose solutions.
3. A statistical puzzle or brain teaser.

Data Visualization (20 minutes)

Work in pairs to create:

1. A scatter plot to display the relationship between two variables.
2. A line graph to show the trend of a dataset over time.
3. A bar chart to compare the values of different categories.

[Space for data visualization]

Interpreting Data (20 minutes)

Work in groups to interpret:

1. A set of data presented in a table or graph.
2. A statistical report or research paper.
3. A news article that includes data and statistics.

Statistics in Real-Life Scenarios (25 minutes)

Choose *ONE* of the following activities:

1. Research and present on a real-life scenario where statistics were used to solve a problem.
2. Design an experiment to collect data on a specific topic and analyze the results.
3. Create a public service announcement that incorporates statistical data.

[Space for real-life scenario]

Collaborative Project (30 minutes)

Work in groups to complete:

1. A collaborative project that incorporates data analysis and statistical concepts.
2. A presentation to share your findings with the class.
3. A written report that summarizes your project and results.

Review and Assessment (20 minutes)

Complete a review activity to assess your understanding:

1. A quiz or test on statistical concepts and data analysis.
2. A group discussion to review key terms and concepts.
3. A self-assessment to reflect on your learning and progress.

Conclusion and Reflection (15 minutes)

Individual Reflection:

1. What did you learn about data analysis and statistical concepts?
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3. What questions do you still have about data analysis and statistical concepts?

Extension Activity (20 minutes)

Choose *ONE* of the following activities:

1. Research and present on a advanced statistical topic.
2. Design and conduct an experiment to collect data on a specific topic.
3. Create a statistical model to predict a real-life scenario.

[Space for extension activity]

Final Project (30 minutes)

Work *individually* to complete:

1. A final project that incorporates data analysis and statistical concepts.
2. A presentation to share your findings with the class.
3. A written report that summarizes your project and results.

Course Evaluation (15 minutes)

Complete a course evaluation to provide feedback:

1. What did you learn from the course?
2. What were the strengths and weaknesses of the course?
3. What suggestions do you have for improving the course?

Conclusion and Next Steps (10 minutes)

Individual Reflection:

1. What are your plans for applying the knowledge and skills learned in the course?
2. What resources or support do you need to continue learning and growing?
3. What are your goals and aspirations for the future?



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