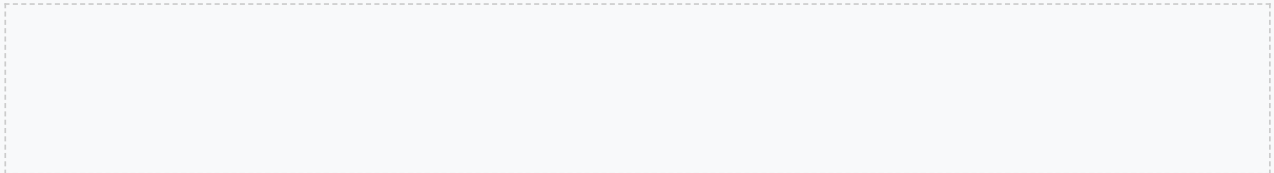




Introduction to Line Graphs

Welcome to our worksheet on constructing line graphs! In this activity, you will learn how to create and interpret line graphs, which are used to show how something changes over time.

Line graphs are a powerful tool for showing how something changes over time. They are used in many real-life situations, such as tracking the weather, monitoring the growth of plants, and analyzing the performance of a company.



What is a Line Graph?

1. What is the main purpose of a line graph?

2. What are the two axes of a line graph called?

3. What does the title of a line graph tell us?

Constructing a Line Graph

1. What are the steps to construct a line graph?

- a) Determine the scales for the axes
- b) Plot the points on the graph
- c) Draw a line to connect the points
- d) All of the above

2. What is the importance of labeling the axes?

3. How do you determine the scale for the y-axis?

Interpreting a Line Graph

1. What does a line graph show about the data?

2. How do you identify a trend in a line graph?

3. What can you conclude from a line graph?


Practice Constructing a Line Graph

Use the data below to construct a line graph:

Day	Temperature
1	20
2	22
3	25
4	28
5	30

Interpreting a Line Graph

Use the line graph below to answer the questions:

 Line Graph

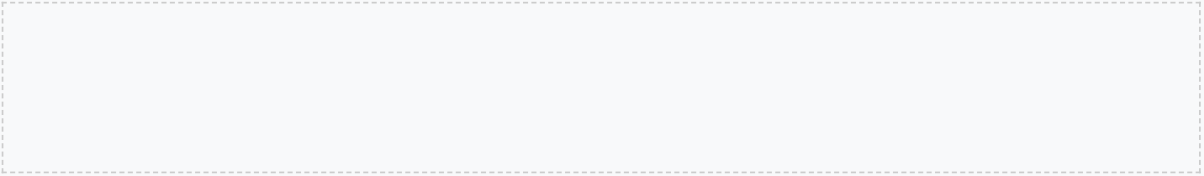
1. What does the graph show about the data?

2. What is the trend in the graph?

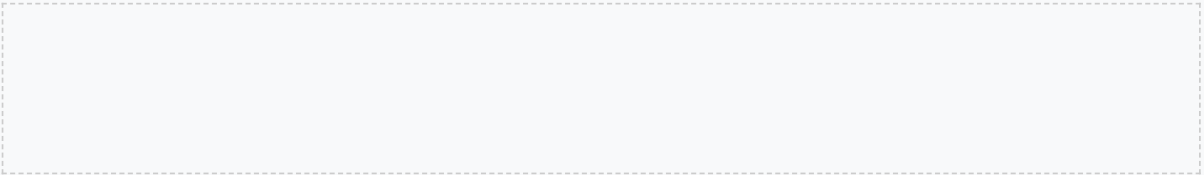
3. What can you conclude from the graph?

Real-Life Applications

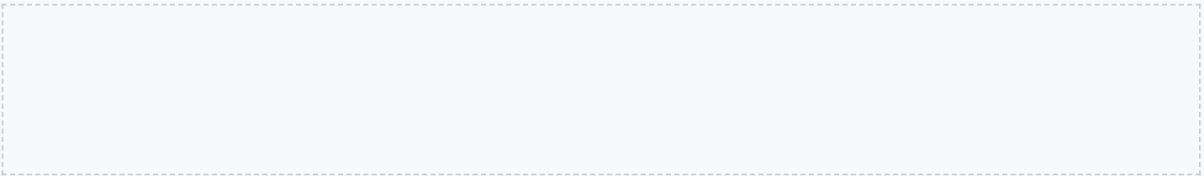
1. How are line graphs used in real life?



2. Give an example of a real-life situation where a line graph is used.



3. How can line graphs help us make informed decisions?



Challenge Activity

Collect data on a topic of your interest (e.g., the amount of rainfall in your area, the growth of a plant, etc.) and create a line graph to represent your data. Write a short report interpreting your findings.

Quiz Time!

1. What is the purpose of a line graph?

- a) To show how something changes over time
- b) To compare different groups
- c) To show how something stays the same
- d) To show how something decreases

2. What are the two axes of a line graph?


- a) x-axis and y-axis
- b) x-axis and z-axis
- c) y-axis and z-axis
- d) x-axis and w-axis

3. What does the title of a line graph tell us?

- a) The name of the graph
- b) The type of graph
- c) The data being represented
- d) The scale of the axes

Word Search

Find the following words related to line graphs in the word search below:

 Word Search

Conclusion

Congratulations on completing our worksheet on constructing line graphs! You have learned how to create and interpret line graphs, and have practiced applying your knowledge in real-life scenarios.

Remember, line graphs are a powerful tool for showing how something changes over time, and can help us make informed decisions in various aspects of life.