



Grade 6

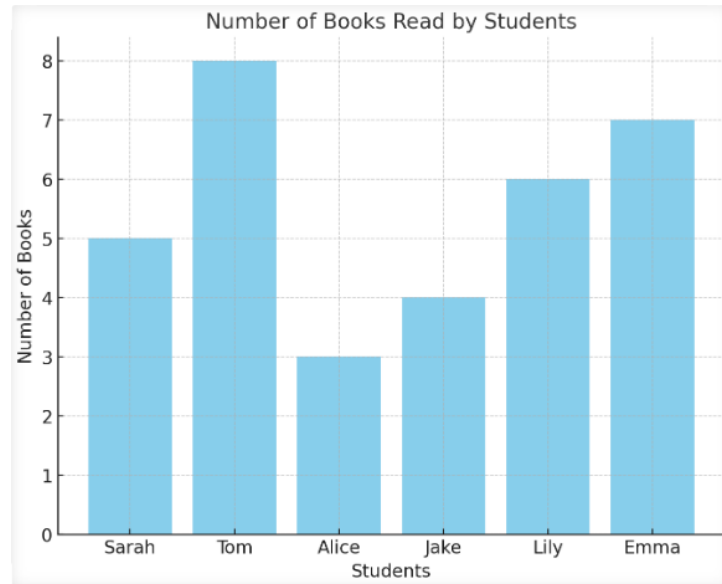
Topic: Data Displays

Instructions

Read each question carefully. Use tables, bar graphs, line plots, and other data displays where needed. Analyze the data and answer the questions.

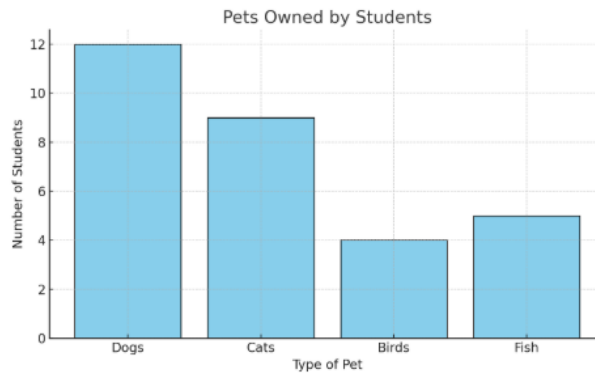
Part A: Interpreting Bar Graphs

Graph 1: Books Read by Students



- How many books did Sarah read?
- Who read the most books?
- How many books did Tom read?
- How many books did the students read in total?

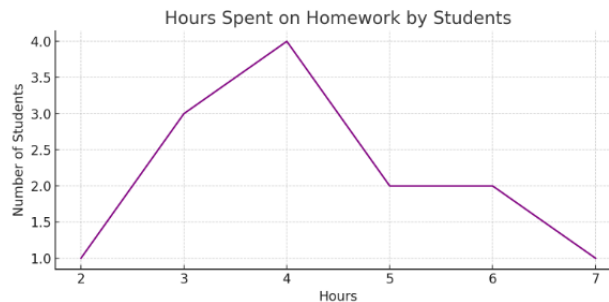
Graph 2: Pets Owned by Students



- How many students have cats?
- What is the difference between the number of students with dogs and the number of students with birds?
- How many students have pets in total?

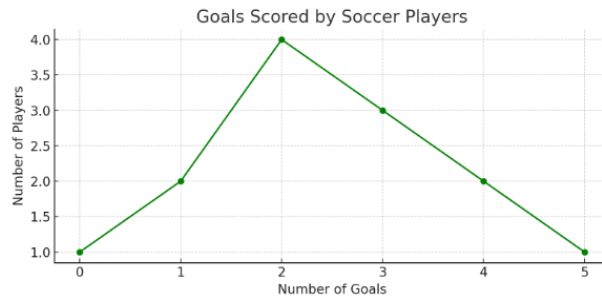
Part B: Reading Line Plots

Plot 1: Hours Spent on Homework



- How many students spent 4 hours on homework?
- What is the total number of hours spent on homework by all the students?
- How many students spent more than 5 hours on homework?

Plot 2: Goals Scored by Soccer Players



- How many players scored 2 goals?
- How many total goals were scored?
- What is the most common number of goals scored?

Part C: Constructing Data Displays

Goals Scored by 10 Players

Data: 2, 5, 3, 6, 4, 5, 1, 4, 6, 2

- Construct a bar graph showing the number of goals scored.
- Construct a line plot showing the same data.

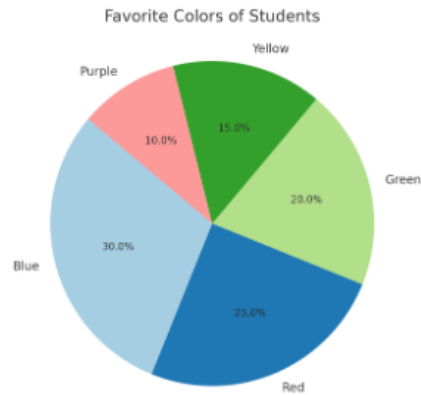
Time Spent on Homework

Data (in minutes): 30, 45, 60, 30, 90, 45, 30, 60

- Construct a frequency table for this data.
- Construct a bar graph based on the frequency table.

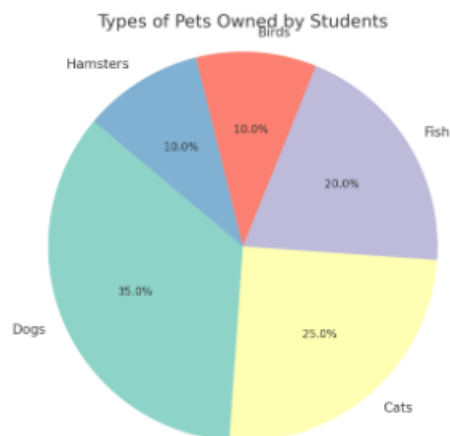
Part D: Analyzing Pie Charts

Pie Chart 1: Favorite Colors



- What is the fraction of students who chose blue as their favorite color?
- Which color was chosen by the fewest number of students?
- If there are 40 students in the class, how many chose red as their favorite color?

Pie Chart 2: Types of Pets Owned



- a. What percentage of students own dogs?
- b. If 100 students participated in the survey, how many own fish?

Visit Our Website: <https://mathaversity.com/>