

29. Statistical Questions

a) Demo

Statistical Our class has 56 students. Over the past 30 days, what is the average sleep duration?

Requires data: 56 students, daily sleep data for the past 30 days

Non-statistical How many pages does my language textbook have?

The answer is fixed — just check the last page; no data collection needed

Statistical Questions

Statistical: Data varies
different results → data collection needed

Non-statistical: Fixed answer
no data collection needed

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b) Pencil Length

I have 10 pencils. What is the average length?

Requires data: length of each of the pencils

c) Height

What is the average height of the 30 boys in our class?

Requires data: height of students

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d) Temperature

What was the daily high temperature this month?

Requires data: daily high temperatures for days

e) Favorite Color

What is the favorite color of the 600 students in the school?

Requires data: responses from students

f) Test Scores

What was the average math midterm score of the 45 students in the class?

Requires data: math scores of students