

Statistics and Data Displays: math test, Grade 6 – download the PDF

Suggested time: 45 minutes. Out of 20 points. Calculator allowed only when the problem says so.

1 Statistical questions

/ 3 pts

Say whether each question is statistical. Justify in one sentence each.

- How many students in our school ride the bus?
- How many players are on a basketball team on the court?
- How many text messages do the students in Grade 6 send per day?

2 Measures of center and range

/ 4 pts

Nine students counted the books on their shelves: 12, 15, 9, 14, 15, 10, 16, 15, 11. Find the mean, the median, the mode and the range.

3 Five-number summary

/ 4 pts

Ten runners finished a race in these times (minutes): 4, 6, 7, 9, 10, 12, 13, 15, 16, 20. Give the five-number summary, then find the IQR and the range.

4 Mean absolute deviation

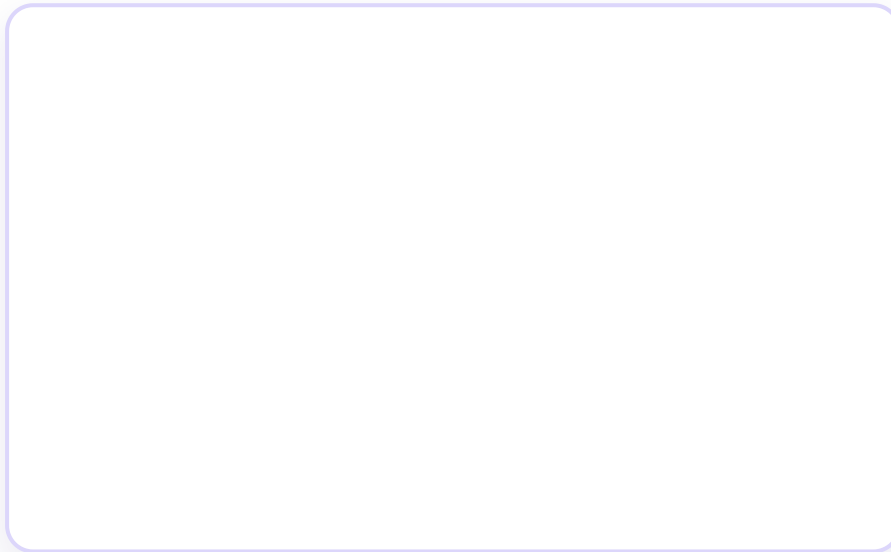
/ 3 pts

Find the MAD of the data 5, 7, 8, 10, 15.

5 Reading a histogram

/ 3 pts

The histogram shows the points scored by a team in 20 games.



Statistics grade 6 histogram of points scored in 20 games using bins of width 10 points, heights 3, 7, 6 and 4

- How many games are shown in total?
- In how many games did the team score fewer than 20 points?
- What fraction of the games had 30 points or more?

6 Choosing a measure of center

/ 3 pts

Seven students timed how long they needed to read a page (minutes): 12, 13, 13, 14, 15, 16, 43. Find the mean and the median. Which one better describes a typical time? Explain.



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