

Data, Graphs and Line Plots: math test solutions, Grade 2 – download the PDF

Test solutions with the detailed point scale. Add up your points and spot what to review.

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

1 Playground tally

/ 3 pts

- a. Monkey bars: 2 groups of five and 4 lines, $5 + 5 + 4 = 14$. **14 students.** (1 pt)
- b. The smallest row is the sandbox, with **3 votes.** (1 pt)
- c. $11 + 7 + 14 + 3 = 35$. **35 students voted.** (1 pt)

2 Birds in the park

/ 4 pts

- a. The jay row has 3 stars, $3 \times 2 = 6$. **6 jays.** (1 pt)
- b. Robins 10 and wrens 4: $10 - 4 = 6$. **6 more robins.** (1 pt)
- c. $10 + 6 + 4 + 8 = 28$. **28 birds.** (1 pt)
- d. $28 - 10 = 18$, or $6 + 4 + 8 = 18$. **18 birds.** (1 pt)

3 Juice stand

/ 4 pts

- a. The Tuesday bar reaches 14. **14 glasses.** (1 pt)
- b. Thursday is 6: $14 - 6 = 8$. **8 fewer.** (1 pt)
- c. $8 + 14 + 10 + 6 = 38$. **38 glasses.** (1 pt)
- d. Wednesday and Thursday: $10 + 6 = 16$. Tuesday: 14. Since $16 > 14$, **Wednesday and Thursday together sold 2 more.** (1 pt)

4 Rope lengths

/ 4 pts

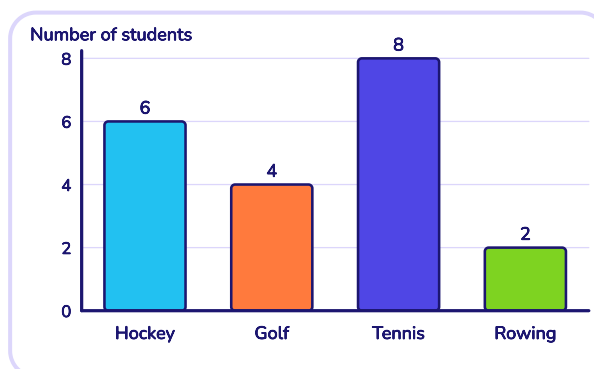
- a. Count the X marks: $1 + 2 + 3 + 2 + 2 = 10$. **10 pieces.** (1 pt)
- b. The tallest stack is above 4. **4 feet.** (1 pt)
- c. Longer than 4 feet means 5 or 6 feet: $2 + 2 = 4$. **4 pieces.** (1 pt)
- d. 2, 3, or 3 feet: $1 + 2 = 3$. **3 pieces.** (1 pt)

5 Draw a bar graph

/ 3 pts

Use a scale from 0 to 8 that counts by 2s. Give the graph a title such as "Favorite sports." Label each bar. (1 pt for the title and labels)

The scale must count by twos: 0, 2, 4, 6, 8. (1 pt)



The bars must be 6, 4, 8, and 2 tall. (1 pt)

6

Seasons survey

/ 2 pts

- a. Known votes: $6 + 4 + 3 = 13$. Then $15 - 13 = 2$. 2 classmates chose winter. (1 pt)
- b. $6 - 3 = 3$. 3 more classmates chose spring. (1 pt)

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