

Grade 2 · Picture Graphs, Bar Graphs and Line Plots · Test Answer Key

Common Core 2.MD.D.9, 2.MD.D.10 · mathovore.fr

This answer key gives the worked solution and the scoring guide for the 8-question graphs test. Award one point for each correct part unless the guide says otherwise. If a student has the right number but forgets the unit, take off one point at most. Total: 20 points.

Grade 2 Common Core: 2.MD.D.9 · 2.MD.D.10

Question 1: Measure the ribbon (2 points)

- a. The ribbon ends at the 5 mark. It is **5 inches** long.
- b. $5 - 3 = 2$. The first ribbon is **2 inches** longer.

Scoring: 1 point for each part. Part a needs the unit.

Question 2: Read a line plot (3 points)

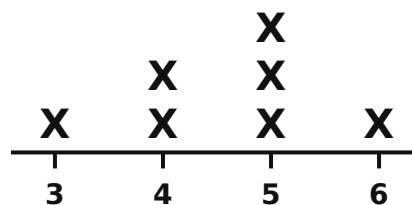
- a. There are 4 X marks above 4. **4 cars**.
- b. Longest: 6. Shortest: 2. $6 - 2 = 4$. **4 inches**.
- c. Shorter than 4 means 2 or 3 inches: $1 + 3 = 4$. **4 cars**.

Scoring: 1 point for each correct part. Accept an answer without the word cars.

Question 3: Make a line plot (2 points)

Draw 1 X at 3, 2 X marks at 4, 3 X marks at 5, and 1 X at 6.

Lengths of 7 leaves



Length in inches

The finished line plot.

Check: $1+2+3+1=7$ leaves.

Scoring: 2 points for all 7 X marks in the right places. 1 point if 1 or 2 X marks are wrong or missing. 0 points if more than 2 are wrong.

Question 4: Read a picture graph (3 points)

- a. Soccer has 6 circles, the most. **Soccer.**
- b. $4+5=9$. **9 students.**
- c. $6-3=3$. **3 more students.**

Scoring: 1 point for each correct part.

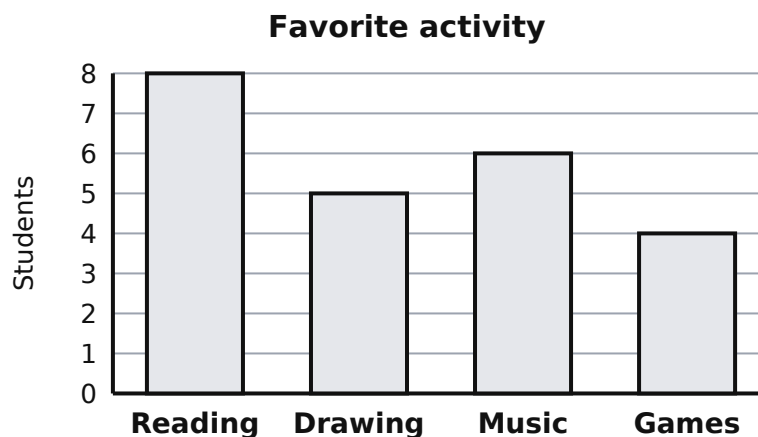
Question 5: Read a bar graph (3 points)

- a. The Dog bar reaches 6. **6 dogs.**
- b. Cats: 8. Dogs: 6. $8+6=14$. **14 pets.**
- c. Cats: 8. Birds: 2. $8-2=6$. **6 fewer birds.**

Scoring: 1 point for each correct part.

Question 6: Make a bar graph (3 points)

Draw the Reading bar up to 8, Drawing up to 5, Music up to 6, and Games up to 4.



The finished bar graph.

Scoring: 1 point for each pair of correct bars: 1 point for Reading and Drawing, 1 point for Music and Games, and 1 point for neat bars that start at 0 and match the scale.

Question 7: Put together and compare (2 points)

- a. $8+6=14$. **14 students.**

b. $8-4=4$. **4 more students.**

Scoring: 1 point for each correct part.

Question 8: Take apart (2 points)

a. Apples and grapes: $7+5=12$. Take apart: $16-12=4$. **4 students.**

b. Apples 7, grapes 5, bananas 4. **Apples.**

Scoring: 1 point for each correct part. In part a, accept any correct method.

Total
20 points