

Grade 3 - Scaled Graphs and Line Plots - Test Answer Key

Common Core 3.MD.B.3, 3.MD.B.4 · maths-pdf.fr/en/

This **graphs test answers** for 3rd Grade covers scaled graphs and line plots (Common Core 3.MD.B.3, 3.MD.B.4), with a free PDF to print.

This answer key shows complete solutions and a scoring guide for the graphs and line plots test. Give partial credit using the guide, and take off a point when a student reads the graph without using the key or scale.

Grade 3 · Common Core State Standards: **3.MD.B.3, 3.MD.B.4**

Graphs test answers: worked solutions

Question 1 - Favorite pets [3 pts]

- a. Cat: 3 stars and a half star. $12+2=14$. **14 students.**
- b. $24-10=14$. **14 more students.**
- c. $24+14+10+18=66$. **66 students.**

Scoring: 1 point for each part.

Question 2 - Hot chocolate [3 pts]

- a. **60 cups.**
- b. Tuesday is 45 and Thursday is 25: $45-25=20$. **20 more cups.**
- c. $30+45+60+25=160$. **160 cups.**

Scoring: 1 point for each part.

Question 3 - Measure the strip [2 pts]

- a. The strip ends at the first short mark after 5: $5\frac{1}{4}$ **inches.**
- b. $5\frac{1}{4}+\frac{1}{4}=5\frac{2}{4}$, which is $5\frac{1}{2}$ **inches.**

Scoring: 1 point for each part.

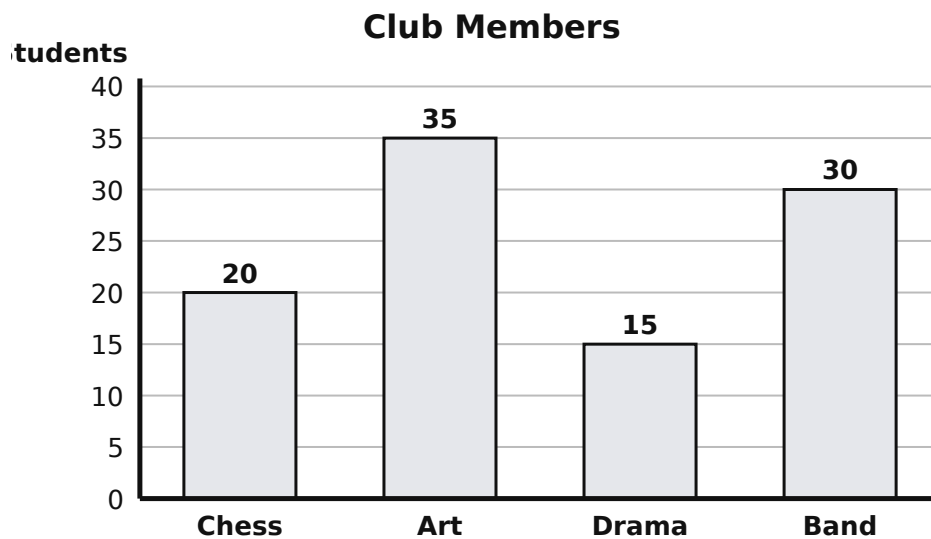
Question 4 - Bean plants [2 pts]

- a. Two Xs are above 2: **2 seedlings.**
- b. Lengths less than 2 are $1\frac{1}{2}$ and $1\frac{3}{4}$: **2 seedlings.**

Scoring: 1 point for each part.

Question 5 - Club members [3 pts]

Draw one bar for each club. The heights are 20, 35, 15, and 30 on a scale that counts by 5.



Sample bar graph.

Scoring: 1 point for a title and labels. 1 point for a scale that counts by 5. 1 point for four correct bars.

Question 6 - Stars for students [2 pts]

- a. $60 \div 10 = 6$. **6 stars.**
- b. 45 is 4 tens and 5 more. Draw **4 stars and 1 half star.**

Scoring: 1 point for each part.

Question 7 - Bakery sales [2 pts]

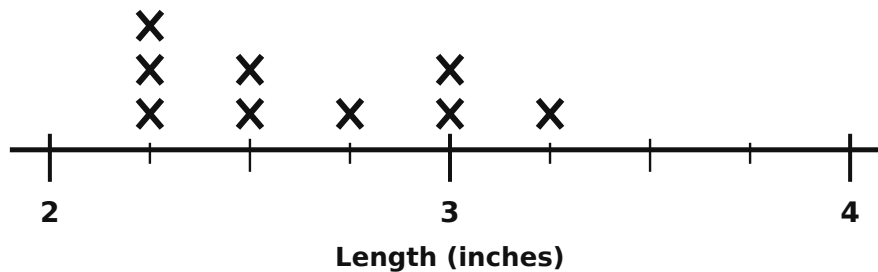
- a. Saturday: $24 + 3 = 27$. Sunday: $3 \times 6 = 18$. $27 - 18 = 9$. **9 more muffins.**
- b. $27 + 18 = 45$. **45 muffins.**

Scoring: 1 point for each part.

Question 8 - Pencil stubs [3 pts]

Draw a number line from 2 to 4 in fourths and put one X for each length.

Pencil Stub Lengths



Line plot with 9 Xs: three at $2 \frac{1}{4}$, two at $2 \frac{1}{2}$, one at $2 \frac{3}{4}$, two at 3, one at $3 \frac{1}{4}$.

Scoring: 1 point for a number line with fourths. 1 point for 9 Xs in total. 1 point for all Xs in the correct places.

Total score

Total

20 points

Key facts behind this graphs test answers

Key facts

- The key tells what one symbol is worth; a half symbol is worth half.
- On a bar graph, read the scale before reading a bar.
- A bar halfway between two lines is halfway between their values.
- A ruler is marked in inches, halves, and fourths.
- On a line plot, each X is one measurement.

How to use this graphs test answers

Score your test with the point values shown for each question. Then read the worked solution of every question where you lost points and note the method to review.