

Line Plots

Name: _____

Date: _____

Score: _____ / 24

Q Quick Review

A **line plot** shows data using **Xs** stacked above a **number line**. Each X stands for one item. To read a line plot, look above a number and count the Xs — that tells you how many items have that value. The number with the **most Xs** happens the most often. To find how many items **in all**, add up every X on the whole plot. Line plots make it easy to compare amounts at a quick glance.

◇ **Example:** On a line plot, 3 Xs are above 5 and 4 Xs are above 6. How many items are there in all?

⇒ Each X stands for one item, so let's count. Above the 5 there are 3 Xs, and above the 6 there are 4 Xs. To find the total, we add the Xs together: $3 + 4 = 7$. So there are 7 items in all on this line plot.

Answer: 7 items

PRACTICE

Read each described line plot and answer the question.

- On a line plot, 4 Xs are above 6 and 2 Xs are above 7. How many items in all? _____
- On a line plot, 3 Xs are above 2 and 5 Xs are above 3. How many items in all? _____
- On a line plot, 6 Xs are above 8. How many items have the value 8? _____
- On a line plot, 2 Xs are above 4, 4 Xs above 5, 1 X above 6. How many in all? _____
- On a line plot, 5 Xs are above 9 and 3 Xs are above 10. Which number has more Xs? _____
- On a line plot, 7 Xs are above 1 and 4 Xs are above 2. How many more Xs above 1? _____
- On a line plot, 3 Xs are above 3, 3 above 4, 3 above 5. How many items in all? _____
- On a line plot, 1 X is above 7 and 6 Xs are above 8. Which number has the most Xs? _____
- On a line plot, 4 Xs are above 5 and 4 Xs are above 6. How many items in all? _____
- On a line plot, 2 Xs above 0, 3 above 1, 5 above 2. How many items in all? _____
- On a line plot, 8 Xs are above 4 and 2 Xs are above 5. How many more Xs above 4? _____
- On a line plot, 5 Xs are above 6 and 0 Xs are above 7. How many items have value 7? _____
- On a line plot, 6 Xs above 2, 1 X above 3. How many items in all? _____
- On a line plot, 3 Xs above 9, 4 above 10, 2 above 11. How many in all? _____
- On a line plot, 7 Xs are above 5 and 7 Xs are above 6. How many items in all? _____
- On a line plot, 2 Xs above 1, 5 above 2, 3 above 3. Which number has the most Xs? _____
- On a line plot, 9 Xs above 8, 4 above 9. How many more Xs above 8? _____
- On a line plot, 1 X above 3, 1 above 4, 1 above 5, 1 above 6. How many in all? _____
- On a line plot, 6 Xs above 7 and 4 Xs above 8. How many items in all? _____
- On a line plot, 3 Xs above 0, 0 above 1, 5 above 2. How many items in all? _____

◆ Word Problems

- Mr. Lee made a line plot of how many pencils students had. He put 4 Xs above 2, 5 Xs above 3, and 2 Xs above 4. How many students did Mr. Lee ask in all? _____
- A line plot shows the number of books read each week. There are 6 Xs above 5 and 2 Xs above 7. How many more weeks had 5 books than 7 books? _____
- Ava measured the lengths of her crayons in inches and made a line plot. She put 3 Xs above 3, 4 Xs above 4, and 3 Xs above 5. Which crayon length is most common? _____



24. On a line plot of jumping jacks, there are 2 Xs above 8, 5 Xs above 9, and 1 X above 10. How many children are shown on the line plot in all? _____



Answer Keys

- | | |
|--------|------------------|
| 1. 6 | 13. 7 |
| 2. 8 | 14. 9 |
| 3. 6 | 15. 14 |
| 4. 7 | 16. 2 |
| 5. 9 | 17. 5 |
| 6. 3 | 18. 4 |
| 7. 9 | 19. 10 |
| 8. 8 | 20. 8 |
| 9. 8 | 21. 11 students |
| 10. 10 | 22. 4 more weeks |
| 11. 6 | 23. 4 inches |
| 12. 0 | 24. 8 children |

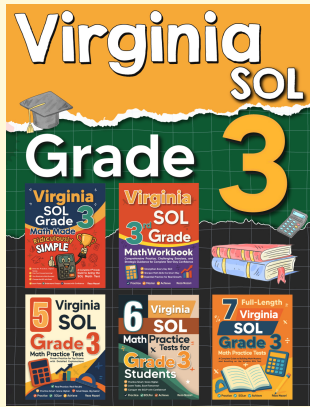
Step-by-Step Explanations

- | | |
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| <p>1. Add the Xs together: $4 + 2 = 6$ items in all.</p> <p>2. Count every X: $3 + 5 = 8$ items in all.</p> <p>3. There are 6 Xs above the 8, so 6 items have that value.</p> <p>4. Add all the Xs: $2 + 4 + 1 = 7$ items in all.</p> <p>5. The 9 has 5 Xs and the 10 has 3 Xs, and $5 > 3$, so 9 has more.</p> <p>6. Compare the stacks: $7 - 4 = 3$ more Xs above 1.</p> <p>7. Add the three stacks: $3 + 3 + 3 = 9$ items in all.</p> <p>8. The 8 has 6 Xs and the 7 has 1 X, so 8 has the most.</p> <p>9. Add the Xs: $4 + 4 = 8$ items in all.</p> <p>10. Count every X: $2 + 3 + 5 = 10$ items in all.</p> <p>11. Compare the stacks: $8 - 2 = 6$ more Xs above 4.</p> <p>12. There are no Xs above the 7, so 0 items have that value.</p> | <p>13. Add the Xs together: $6 + 1 = 7$ items in all.</p> <p>14. Count every X: $3 + 4 + 2 = 9$ items in all.</p> <p>15. Add the two stacks: $7 + 7 = 14$ items in all.</p> <p>16. The 2 has 5 Xs, more than the 2 and 3 Xs, so 2 has the most.</p> <p>17. Compare the stacks: $9 - 4 = 5$ more Xs above 8.</p> <p>18. Each number has 1 X: $1 + 1 + 1 + 1 = 4$ items in all.</p> <p>19. Add the two stacks: $6 + 4 = 10$ items in all.</p> <p>20. Count every X: $3 + 0 + 5 = 8$ items in all.</p> <p>21. Each X is one student. Add the Xs: $4 + 5 + 2 = 11$ students in all.</p> <p>22. Compare the two stacks of Xs: $6 - 2 = 4$ more weeks had 5 books.</p> <p>23. The 4 has 4 Xs, more than the 3 Xs above 3 and the 3 Xs above 5. So 4 inches is most common.</p> <p>24. Each X stands for one child. Add all the Xs: $2 + 5 + 1 = 8$ children in all.</p> |
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