

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

21 problems graded by difficulty (★ easy, ★★ medium, ★★★ hard). Try first, without looking at the solutions!

1 Recess tally



The students voted for their favorite recess game. Use the tally chart.

Tag	
Jump rope	
Hopscotch	
Kickball	

- How many students chose jump rope?
- Which game got the fewest votes?
- How many more students chose kickball than hopscotch?

2 Groups of five



For each number, tell how many full groups of five (four lines and a slash) you need, and how many single lines are left: 7, 10, and 13. Which of the three numbers needs no single lines?

3 Orchard picture graph



Four friends picked fruit at an orchard. The picture graph shows what they picked.

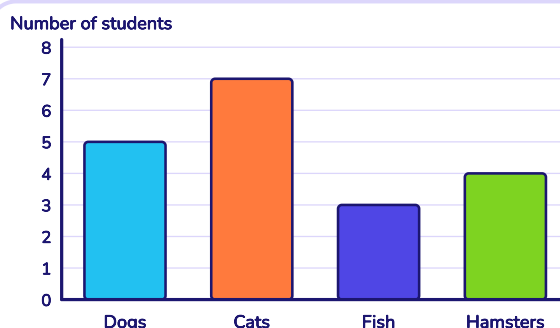


- How many plums were picked?
- Which fruit was picked the least?
- How many pieces of fruit were picked in all?

4 Pets at home



This bar graph shows the pets that students have at home.

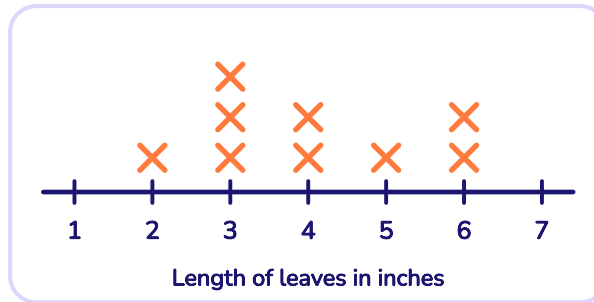


- How many students have cats?
- Which pet is owned by the fewest students?
- How many more students have cats than dogs?

5 Leaf line plot



Zoe measured nine leaves to the nearest inch and made a line plot.



- a. How many leaves are 3 inches long?
- b. How long is the longest leaf?
- c. How long is the shortest leaf?
- d. How many leaves did Zoe measure?

6 True or false?



Say whether each sentence is true or false.

- a. A group of five tally marks has four straight lines and one slash.
- b. A picture graph does not need a key.
- c. In a bar graph, a taller bar means a smaller number.
- d. On a line plot, each X shows one measurement.

7 Make a tally chart



Cleo asked ten friends to pick a color. She wrote R for red, B for blue, and G for green: **R B R G B R R B G R**. Make a tally chart and write how many friends picked each color.

8

Sticker picture graph



Four friends collected stickers. Use the key carefully.



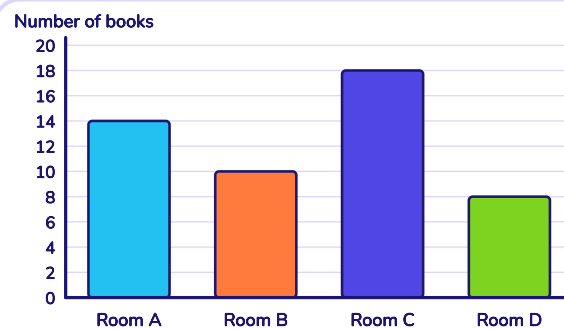
- How many stickers does Ben have?
- How many more stickers does Ben have than Cy?
- How many stickers do the four friends have in all?

9

Books read by four rooms



Four classrooms kept track of the books they read in a month.

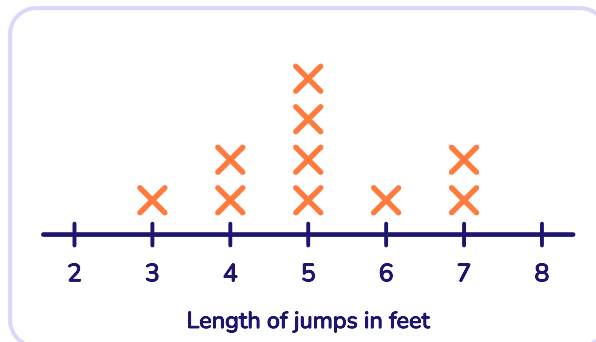


- How many more books did Room A read than Room D?
- How many books did the four rooms read in all?
- Which two rooms together read exactly as many books as Room C?

10 Long jump line plot



Ten students tried a long jump. Their jumps, measured to the nearest foot, are on the line plot.



- Which jump length happened the most?
- How many students jumped more than 5 feet?
- What is the difference between the longest and the shortest jump?

11 Lunch vote



The class voted for lunch.

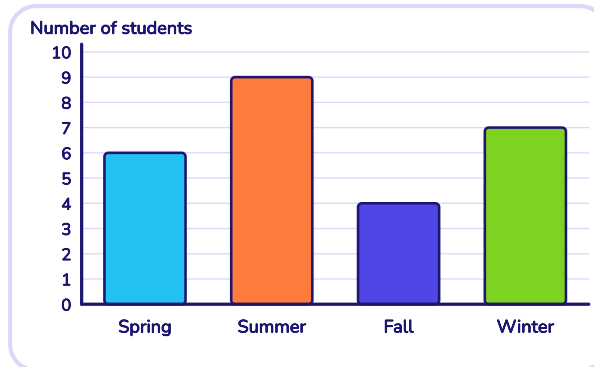
Pizza	
Tacos	
Pasta	
Salad	

- How many students voted in all?
- How many more students chose tacos than pizza?
- Did pizza and pasta together get more votes than tacos? Explain.

12 Birthday seasons



A teacher made a bar graph of the seasons of her students' birthdays.



- Which season has the most birthdays?
- How many more birthdays are in summer than in fall?
- How many students are in the class?
- How many birthdays are not in summer?

13 Draw a bar graph



Sam counted the hats in the lost-and-found box: red 4, blue 7, green 5, yellow 2. Draw a bar graph. Which scale would you choose, counting by ones or by tens? Why?

14 Make a line plot

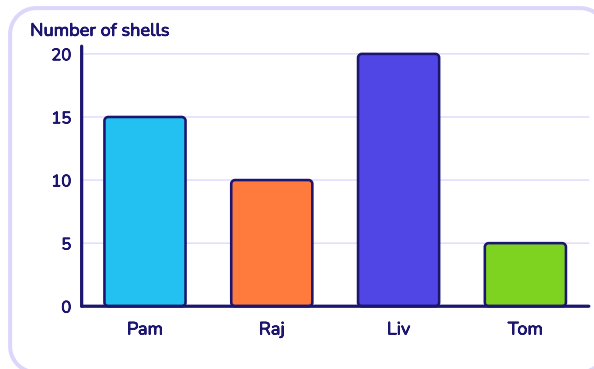


Ivy measured ten pencils to the nearest inch: 6, 5, 7, 5, 6, 4, 5, 6, 5, 7. Make a line plot. Then tell how many pencils are 5 inches long.

15 Shell collecting



Four friends collected shells on the beach. The scale counts by fives.

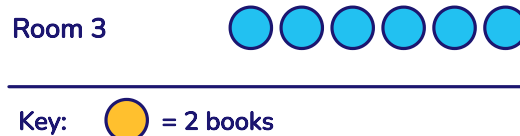


Liv gives 5 of her shells to Tom. Who has the most shells now? Explain.

16 Find the mistake: picture graph



Max looked at this picture graph and said, "Room 3 read 6 books, because there are 6 circles."



Is Max right? Explain what he forgot and give the correct answer.

17 Find the mistake: tally marks



Jo looked at a tally row with 3 full groups of five and 2 single lines. Jo said, "That is $3 + 2 = 5$."



What did Jo do wrong? What is the correct total?

18 Four-category survey



Leo asked 20 classmates, “Which free-time activity do you like best?” Each classmate chose one activity. He lost the number for skating.

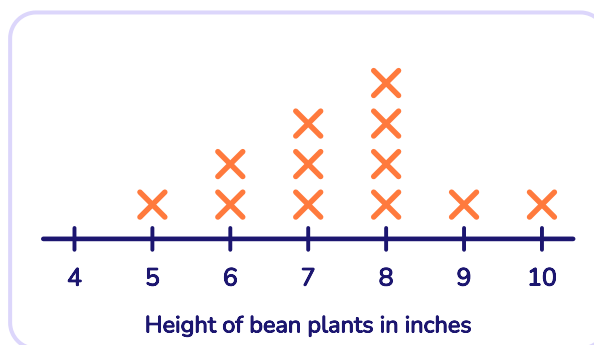
Activity	Soccer	Swimming	Biking	Skating
Students	7	5	6	?

- How many students chose skating?
- Which activity is the least popular?
- How many more students chose soccer than skating?
- How many students chose swimming or biking?

19 Plant heights



Twelve bean plants were measured to the nearest inch.



- How many plants are exactly 8 inches tall?
- How many plants are taller than 7 inches?
- How many plants are shorter than 7 inches?
- What is the difference between the tallest and the shortest plant?

20

Choose a scale



Ravi made a tally chart of fruit eaten at lunch. He wants to draw a bar graph.

Apples	
Bananas	
Grapes	
Oranges	

Which scale would be best: counting by 1s, by 2s, or by 10s? Give the height of each bar.
How many pieces of fruit were eaten in all?

21

Two days of cookies



A bakery sold four kinds of cookies on Friday and on Saturday.

Cookie	Friday	Saturday
Oatmeal	12	10
Lemon	8	9
Chocolate	14	20
Ginger	6	6

- How many cookies were sold on each day?
- Which kinds sold more on Saturday than on Friday? How many more of each?
- Which kind sold the same number on both days?



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