

Grade 2 · Picture Graphs, Bar Graphs and Line Plots · Worksheet

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

Name: _____ Date: ____/____/____ Score: _____

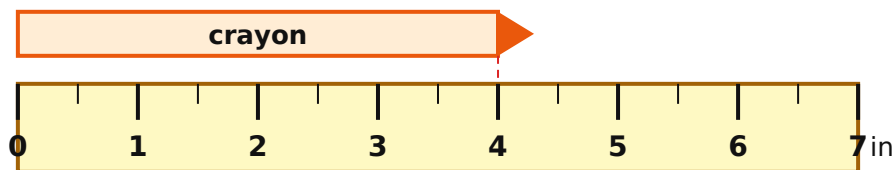
This worksheet gives 24 problems on line plots, picture graphs, and bar graphs. Students measure lengths with a ruler, make a line plot, and read graphs with up to four categories. The standards are 2.MD.D.9 and 2.MD.D.10.

Students also solve put-together, take-apart, and compare problems. The last six problems are word problems that need more than one step. Every problem has a picture.

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

Problem 1: Read the ruler

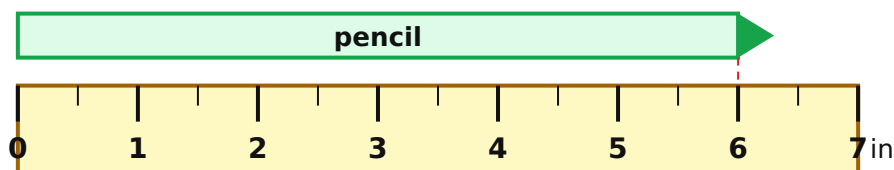
Read the ruler. How long is the crayon?



A crayon next to an inch ruler.

Problem 2: Measure the pencil

The pencil starts at 0 on the ruler. How many inches long is it?

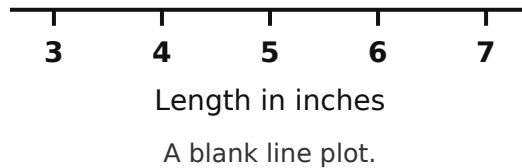


A pencil next to an inch ruler.

Problem 3: Make a line plot

Maya measured 8 leaves: 4, 5, 5, 6, 3, 5, 4, 6 inches. Draw an X on the line plot for each leaf.

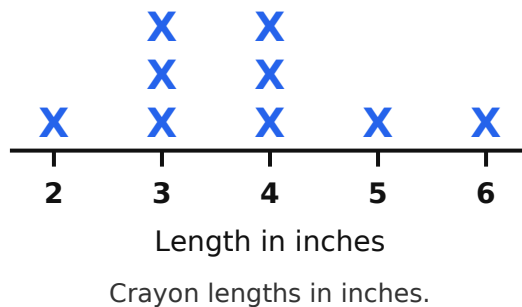
Lengths of 8 leaves



Problem 4: Count on the line plot

Use the line plot of the crayon lengths.

Lengths of 9 crayons

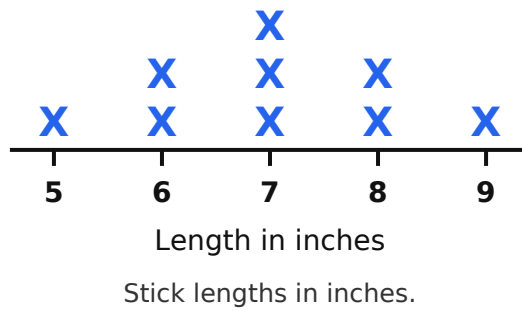


- How many crayons are 4 inches long?
- How many crayons are shorter than 4 inches?

Problem 5: How many objects

Priya measured sticks for a craft project. How many sticks did she measure in all?

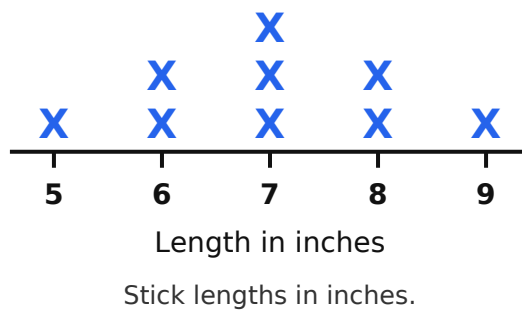
Lengths of sticks



Problem 6: Longest and shortest

Use the line plot of the sticks. Find the longest stick and the shortest stick. How much longer is the longest stick?

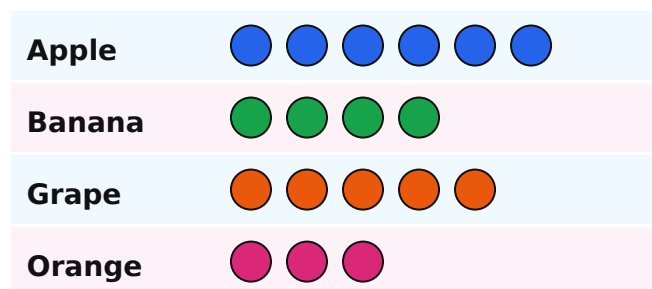
Lengths of sticks



Problem 7: Read a picture graph

Each circle is 1 student. How many students chose grapes? Which fruit did the most students choose?

Favorite fruit

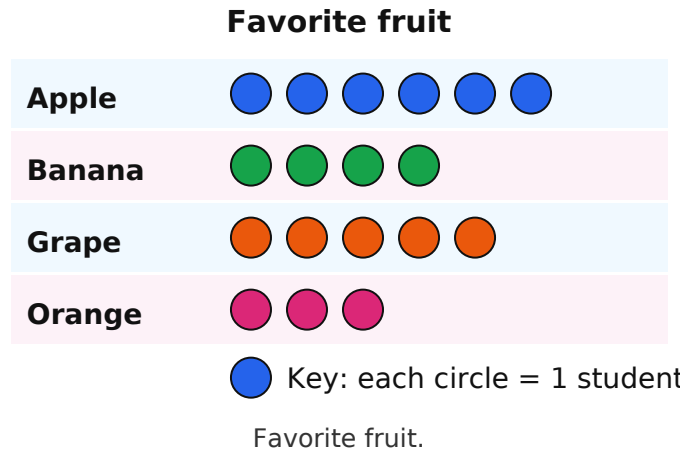


Key: each circle = 1 student

Favorite fruit.

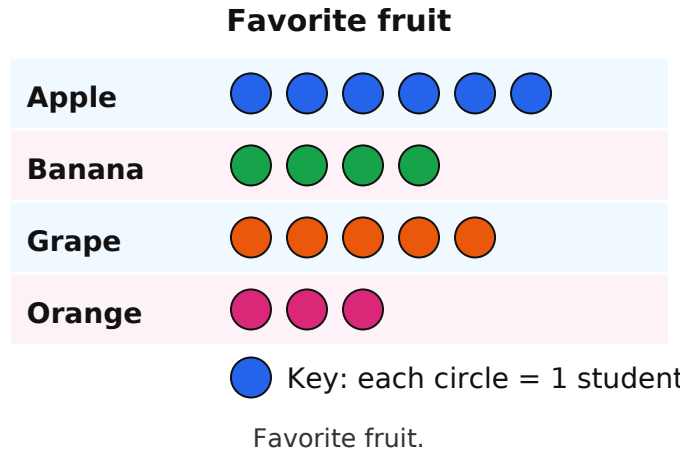
Problem 8: Put together on a picture graph

Use the picture graph. How many students chose apples or bananas?



Problem 9: Compare on a picture graph

Use the picture graph. How many more students chose apples than oranges?



Problem 10: Make a picture graph

Draw circles to finish the picture graph. Each circle is 1 student. Soccer: 7. Tag: 5. Kickball: 4. Swimming: 2.

Favorite game

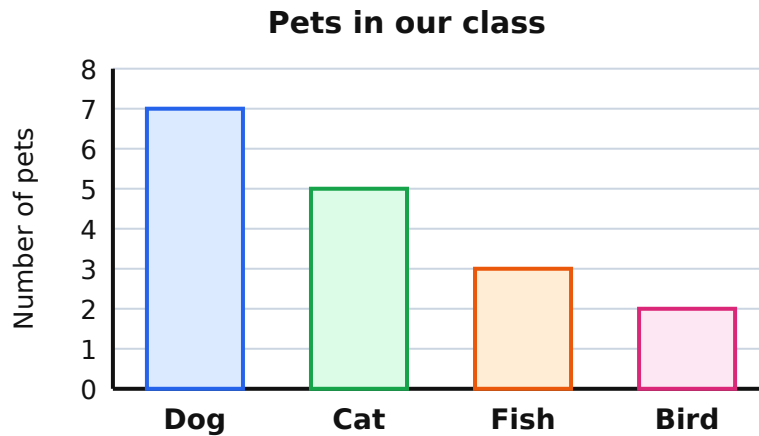


● Key: each circle = 1 student

A blank picture graph.

Problem 11: Read a bar graph

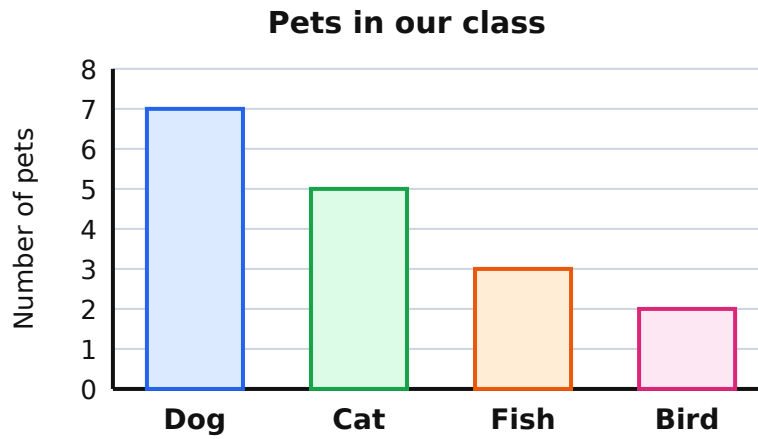
Use the bar graph. Which pet is the most popular? Which pet is the least popular?



Pets in our class.

Problem 12: Put together on a bar graph

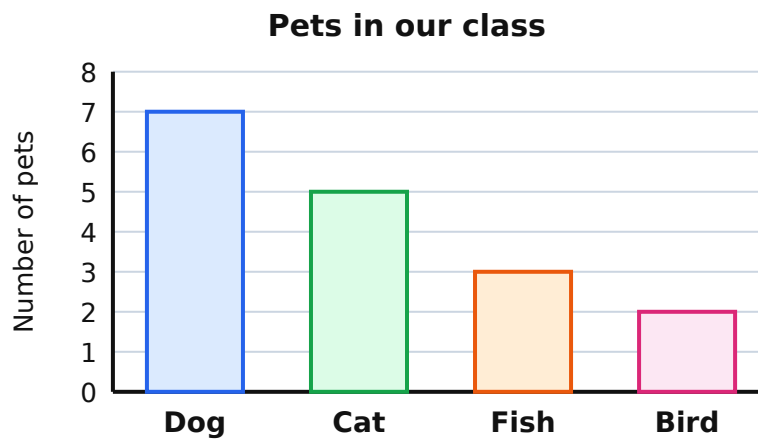
Use the bar graph. How many cats and fish are there in all?



Pets in our class.

Problem 13: Compare on a bar graph

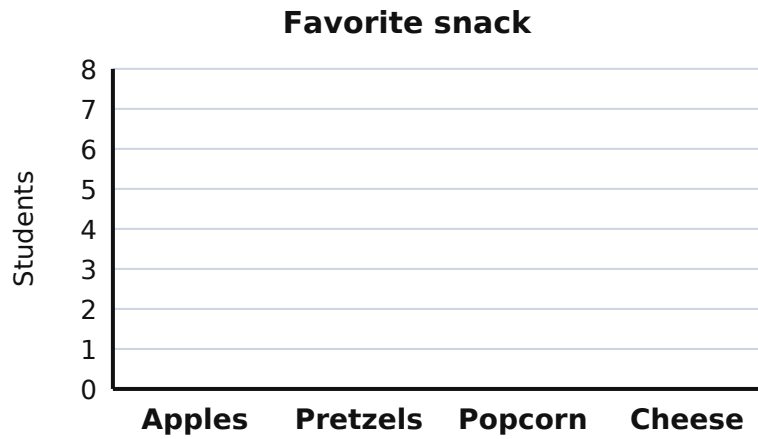
Use the bar graph. How many fewer birds than dogs are there?



Pets in our class.

Problem 14: Make a bar graph

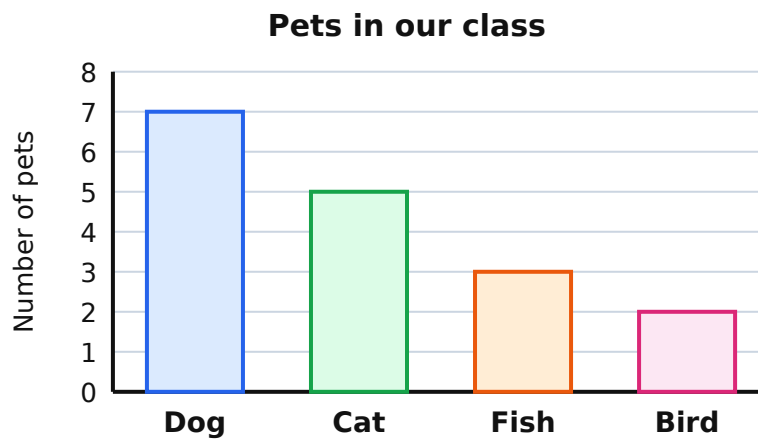
Color the bars to finish the bar graph. Apples: 5. Pretzels: 6. Popcorn: 8. Cheese: 3.



A blank bar graph.

Problem 15: All the pets

Use the bar graph. How many pets are there in all?



Pets in our class.

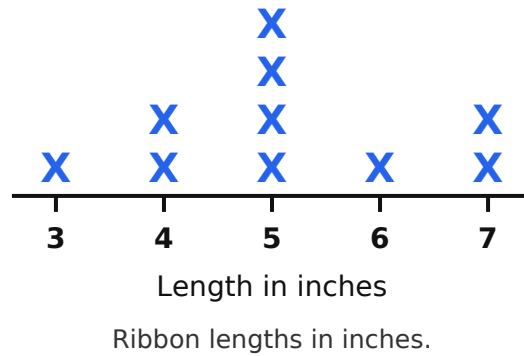
Problem 16: Compare two lengths

A marker is 9 inches long. A crayon is 6 inches long. How many inches longer is the marker?

Problem 17: Take apart

Jamal measured 10 ribbons. Look at the line plot. How many ribbons are not 5 inches long?

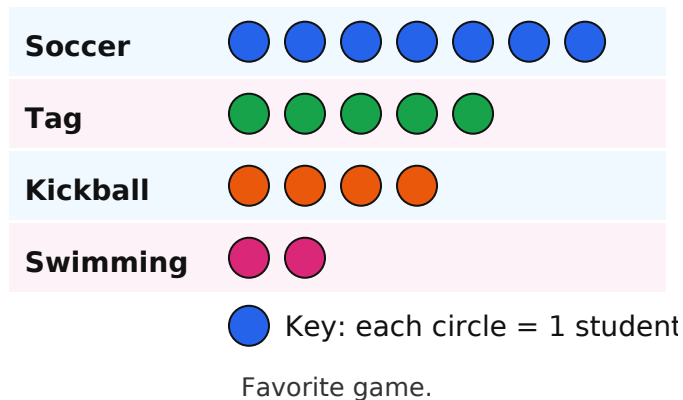
Lengths of 10 ribbons



Problem 18: Order from most to least

Use the picture graph. List the games from the most popular to the least popular.

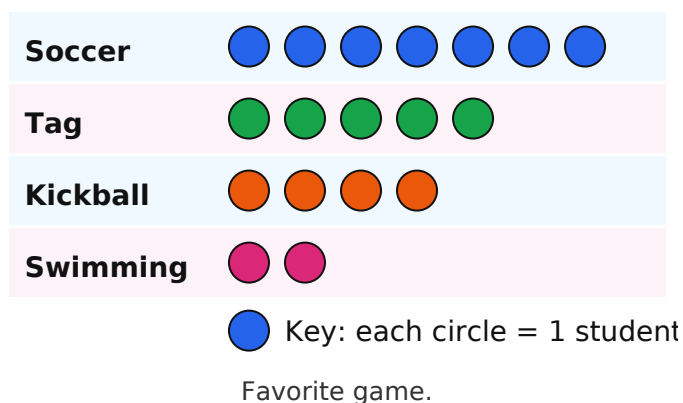
Favorite game



Problem 19: Two groups

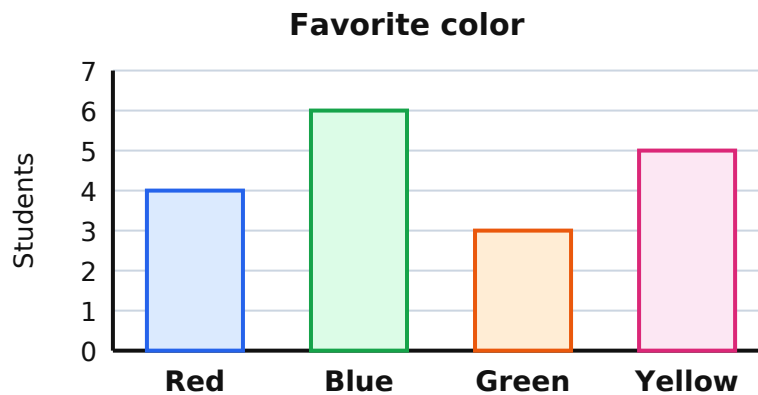
Use the picture graph. How many more students chose soccer and tag together than kickball and swimming together?

Favorite game



Problem 20: Favorite colors

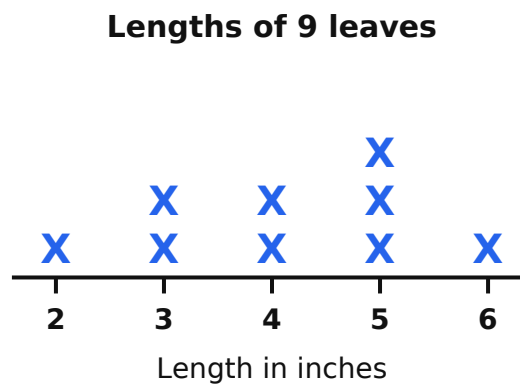
Students voted for a favorite color. How many students voted in all? How many fewer voted for green than for blue?



Favorite color.

Problem 21: Leaves longer than 4

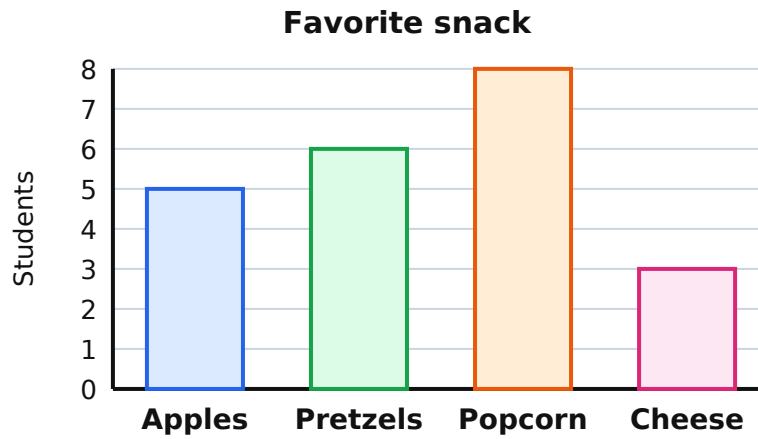
Mei measured leaves in the park. How many leaves are longer than 4 inches?



Leaf lengths in inches.

Problem 22: Will cheese win

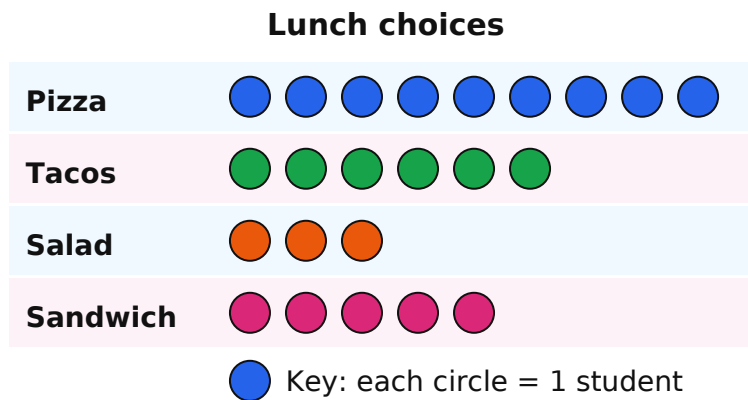
Use the bar graph of favorite snacks. Four more students vote for cheese. Will cheese have more votes than popcorn? Explain.



Favorite snack.

Problem 23: School lunch

Use the picture graph. (a) How many students chose lunch in all? (b) How many students did not choose pizza?

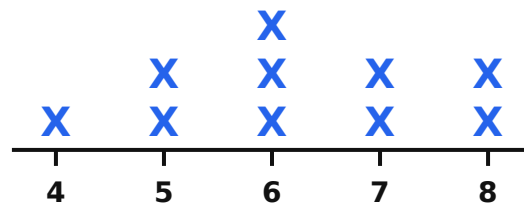


Lunch choices.

Problem 24: Measuring sticks

Jamal measures 10 sticks. Look at the line plot. (a) How many sticks are 6 inches long? (b) How long is the longest stick? (c) How many sticks are longer than 6 inches?

Lengths of 10 sticks



Length in inches

Stick lengths in inches.