Favorite Recess Choice Graphs

Make a picture graph and a bar graph with a scale of 1

Name: _____ Date: _____

Part 1 - Make a picture graph

Name: _____

Our class took a **fictional practice survey** about favorite recess choices. Use the data below. Use the data table to draw the correct number of stars in each row. Draw at most one star in each box. **Key: ★ = 1 vote**

Recess choice	Number of votes
Kite flying	3
Ball games	5
Boat races	2
Robot tag	4

Favorite Recess Choices - Picture Graph

Choice	1	2	3	4	5
Kite flying					
Ball games					
Boat races					
Robot tag					

Key: ★ = 1 vote

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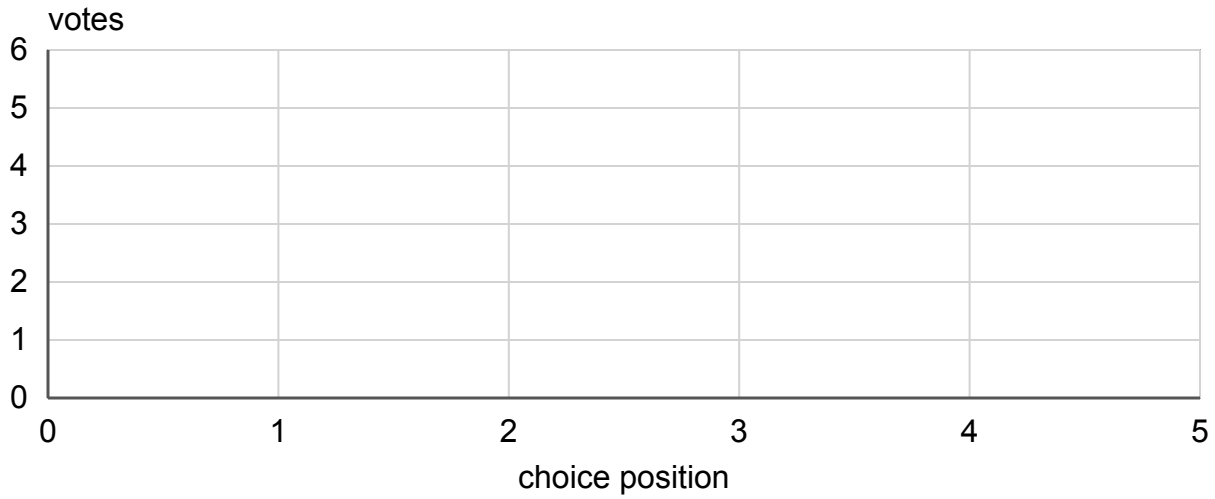
Name: _____ Date: _____

Part 2 - Make a bar graph

Use the same recess survey from Part 1. Draw one bar for each choice. Start every bar at 0. Each line up means **1 vote**.

Bar positions: 1 = Kite flying, 2 = Ball games, 3 = Boat races, 4 = Robot tag

Favorite Recess Choices - Bar Graph



Check: Every bar begins at 0, and every bar height matches the data table.

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Name: _____ Date: _____

Part 3 - Read the graphs

Look at your completed picture graph or bar graph. Write an equation and an answer for each question.

1. How many children chose kite flying or robot tag?

2. How many more children chose ball games than boat races?

3. There were 14 votes in all. How many children did not choose ball games?

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Answer key

Part 1 - Picture graph

Draw 3 stars for Kite flying, 5 stars for Ball games, 2 stars for Boat races, and 4 stars for Robot tag. Each star represents exactly 1 vote.

Part 2 - Bar graph

Draw four bars beginning at 0. The bars at positions 1, 2, 3, and 4 have heights 3, 5, 2, and 4, respectively. The vertical scale is 1 vote per grid unit.

Part 3 - Read the graphs

1. 3 + 4 = 7 children.

2. 5 - 2 = 3 more children.

3. 14 - 5 = 9 children.

Quick scoring check

A complete response has all four picture-graph rows matching 3, 5, 2, and 4; all four bar heights matching 3, 5, 2, and 4 and beginning at 0; and correct equations or clear calculations for questions 1-3.

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Teaching notes

Materials and setup

Supplied: student task pages with the fictional data table, picture-graph work area, graphing directions, and calculation lines. **Additionally needed:** pencils, erasers, and rulers or straightedges if students need help drawing bar edges. Print and supply all student pages, keeping teacher-key pages separate.

Teaching script

Say: “We will show the same data in two ways. Read the key first. In the picture graph, one star stands for one vote. Look at each number in the data table and draw that many stars. In the bar graph, one grid step up stands for one vote. Check that your picture count and your bar height match each category's number.”

After students graph, say: “Use either completed graph to write an equation for each question.”

Observation method

As students work, compare each row and bar to the data table. If a student needs support, say: “Point to the number for this category. How many symbols or grid steps should match it?” Do not tell students the needed number. Note whether the student uses the key, starts bars at 0, and matches each graph to the same data set.

Source credit

Standard reference: NY-2.MD.10, “Represent and interpret data,” LessonMakerPro standard page, https://lessonmakerpro.com/standards/ny-nextgen-math/ny-2-md-10 (accessed 2026-09-25). The recess survey is fictional instructional data created for this worksheet.