



Content Area: Math

Grade Level: 1

Reporting Measure: Representing Categorical Data

Level	Description
Above & Beyond (4.0)	I can use the information in a chart or graph to solve problems (for example, when someone gives me a picture graph showing the number of pigs, goats, and chickens on a farm, I can use the graph to find out how many more pigs there are than chickens).
3.5	I can do all of the things at level 3.0, and I can do some of the things at level 4.0.
Proficient (3.0)	RCD1—I can create a chart or graph to display information on up to 3 different types of things (for example, when someone gives me a picture of a fish tank with fish in it, I can create a graph that shows the number of different types of fish in the tank). RCD2—I can read a chart or graph to answer questions about the information it shows (for example, when someone gives me a graph showing the favorite foods of all the kids in the class, I can use it to tell how many kids like a certain food the most or how many kids are in the class).
2.5	I can do all of the things at level 2.0, and I can do some of the things at level 3.0.
Getting There (2.0)	RCD1—I know what certain words mean (for example, <i>category, category label, chart, classify, data, graph, graph title, organize, pictograph, picture graph, tally, tally chart</i>) and can do things such as: - Group things into different categories. For example, when someone gives me a set of animal pictures, I can put them in groups of animals with horns, animals with wings, and animals that don't have horns or wings. - Use tally marks to write down how many things are in a category when I'm grouping things into categories. - Explain that a chart or graph can be used to give someone a picture of how many things there are in several different categories. - List all the things that are part of a chart or graph (its title, categories, category labels, and pictures or symbols representing the things in the different categories). - Explain that each picture or symbol in a simple chart or graph stands in for one of the things that belongs to that picture or symbol's category. - Explain that categories in a chart or graph just stand in for different types of things and can be put in any order. - Create a tally chart or graph that someone could use to show how many things there are in several different categories. For example, I can make a tally chart that has a chart title, categories, and category labels that someone could use to show how many things there are in the different categories. RCD2—I know what certain words mean (for example, <i>category, category label, chart, classify, data, equation, graph, graph title, organize, pictograph, picture graph, tally, tally chart</i>) and can do things such as: - Pick out the parts of a chart or graph someone gives me, like the chart or graph title, categories, category labels, and the symbols or pictures that show how many things there are in each category. - Figure out what type of things a chart or graph is showing. For example, when someone gives me a graph I can figure out what types of things are being counted and what types of categories they're being put into.

	• Figure out which category a symbol or picture on a chart or graph belongs to. • Explain that you can find out how many total things are in a certain category of a simple chart or graph by counting up all the symbols in that category. • Explain that you can find out how many total things are being shown in a chart or graph by counting up all the things in each category together or by adding together the numbers of things in each category. • Write an equation to show the same information that is in a chart or graph someone gives me. For example, when someone gives me a chart showing things that have been sorted into three categories that contain 7, 12, and 8 things each, I can write the equation $7 + 12 + 8 = \square$ to show how many things are in the chart.
1.5	I can do some of the things at level 2.0 and at level 3.0.
Beginning (1.0)	I can do some of the things at level 2.0 and at level 3.0 with help.