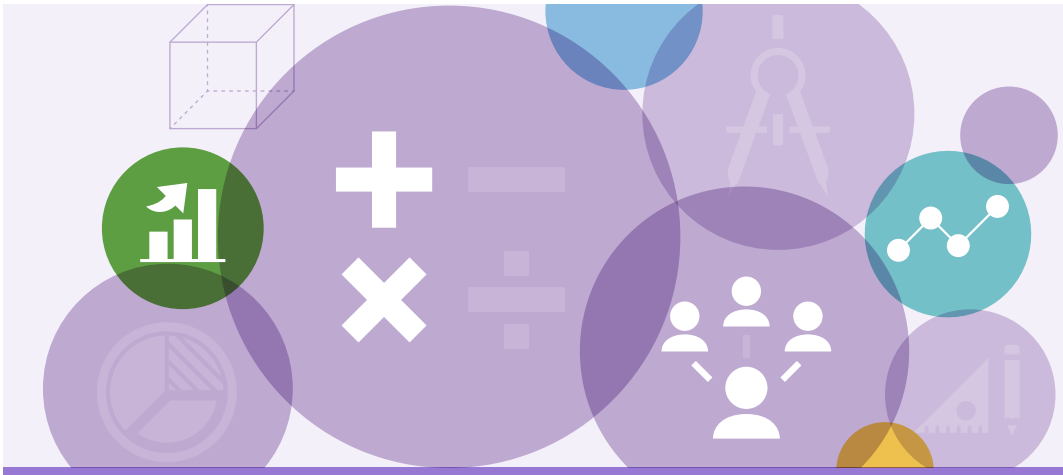


STUDENT VERSION

# CHANGES IN MY STATE

## Student Learning Objectives

- I will be able to create a bar graph.
- I will be able to use my bar graph to make comparisons.

The U.S. Census Bureau collects information about all people in the United States through a nationwide count, called the census, which happens every 10 years. The Census Bureau also collects data at other times through additional sample surveys.

A good way to compare data is to represent those data in a bar graph.

You are going to compare how the numbers of a few different types of businesses changed between 2010 and 2022 by creating a bar graph. When creating your graph, you must decide the scale of your y-axis, meaning the number that one square on your graph paper represents on the "up-and-down" side of your graph. For example, one square could represent five stores, or it could represent 20 stores.

Start by typing this URL into your browser to get to the State Facts for Students tool: *www.census.gov/programs-surveys/sis/resources/data-tools/state-facts.html*. Then select the state where you live. Scroll down to the Businesses section (in purple) at the bottom of the page.

NAME:_____ DATE:_____

1. Choose three business types that you would like to compare in your state and write them in the left column of the table below. Then write how many of each business type existed in your state for 2010 and 2022 in the next two columns.

| Business Type | 2010 | 2022 |
|---|---|---|
| | | |
| | | |
| | | |

2. Of these three business types, which one had the smallest number in 2010? What is that number?

3. Of these three business types, which one had the largest number in 2010? What is that number?

4. Which type of business had the smallest number in 2022? What is that number?

5. Which type of business had the largest number in 2022? What is that number?

6. What is the difference between the smallest data point and largest data point in your chart? Show your work.

7. Before you create a bar graph of these data, choose a scale for the y-axis (the vertical or "up-and-down" axis) that makes sense (not too big and not too small). Write your scale here:

   _____ squares = _____ businesses

8. Now on your graph paper, write the scale and labels that indicate the types of businesses you chose.
9. Create your bar graph on your graph paper.

## Reflection Questions:

1. What surprises you about the differences in the numbers of business types between 2010 and 2022? Why does this surprise you?

2. Which business type in the graph saw the greatest increase or decrease between 2010 and 2022? Write a hypothesis statement for this increase or decrease. Then explain what you think might happen with this type of business in the future.

3. What other questions could your graph help you answer? Write your own question that can be answered by using your graph.