

Census Data Detectives

Read a bar chart and organize its information into a report outline.

4.19.D "organize and interpret information in outlines, reports, databases, and visuals, including graphs, charts, timelines, and maps;"

NAME _____

DATE _____

1 READ AND MARK _____ Read it twice

YOUR JOB Circle the chart title and unit. Then number the four state names from 1 to 4, with 1 for the largest displayed population, so you can see how the visual organizes a comparison.

Counting People, Comparing States

- ① Every ten years, the United States Census counts people living in the country. Governments use the results to plan services and decide how many representatives each state has in Congress. The bar chart shows 2020 Census populations for four states. Its numbers are rounded to the nearest tenth of a million, so the chart is easy to compare.

2020 CENSUS STATE POPULATIONS



- ② A reader can use the chart by first checking its title and unit. Then the reader compares bar lengths and values. The data show that some state populations are close, while another is much larger or smaller. A report should name the source, state what the numbers measure, and make a comparison supported by data.
- ③ Census data are kept in databases, which store many records that can be sorted or searched. A researcher might use an outline before writing a report. Main points in an outline organize related facts. Charts, databases, outlines, and reports can present the same information in different ways for different readers.

2 ANSWER WITH EVIDENCE Use the passage

1 What does the chart title tell you, and what unit does the chart use?

2 List the four states from greatest to least displayed population.

3 Using the displayed rounded values, how many million more people lived in Texas than in Pennsylvania?

4 If a student needs an exact population instead of a rounded chart value, which source described in the passage should the student use? Why?

3 YOUR TURN Your own words

Write an outline for a short report about the chart. Give it a title and write three numbered main points. Each main point must include at least one number from the chart.

PART 1 • READ AND MARK

Circle the chart title and unit. Then number the four state names from 1 to 4, with 1 for the largest displayed population, so you can see how the visual organizes a comparison. Accept any marking that follows this job and points at the right text.

PART 2 • ANSWERS

#	QUESTION	ANSWER
1	What does the chart title tell you, and what unit does the chart use?	It shows 2020 Census state populations. The unit is millions of people, rounded to the nearest tenth.
2	List the four states from greatest to least displayed population.	Texas, Florida, New York, Pennsylvania.
3	Using the displayed rounded values, how many million more people lived in Texas than in Pennsylvania?	16.1 million more people.
4	If a student needs an exact population instead of a rounded chart value, which source described in the passage should the student use? Why?	The student should use the Census data database because the chart values are rounded and a database stores many records that can be searched or sorted.

PART 3 • YOUR TURN (SAMPLE ANSWER)

2020 State Population Report 1. Texas had the largest displayed population, 29.1 million people. 2. Florida and New York had similar populations, 21.5 million and 20.2 million. 3. Pennsylvania had the smallest displayed population, 13.0 million people.

Accept equivalent comparisons that use the displayed rounded values. For the outline, accept a clear title and three numbered, accurate data-based main points, each containing a chart number.