

Graphing Native American Populations

Fast Facts

Curriculum Area: Mathematics
Grade Level: Grade 5
Suggested Duration: 60 minutes

Stage 1 Desired Results

Established Goals

Data Analysis Mathematics Content Standard 2 A student, applying reasoning and problem solving, will use data representation and analysis, simulations, probability, statistics, and statistical methods to evaluate information and make informed decisions within a variety of relevant cultural contexts, including those of Montana American Indians.

2.2 Evaluating Data and Making Conjectures Interpret, analyze, and evaluate data using mean, median, range, and quartiles to identify trends and make decisions and predictions about data within scientific and cultural contexts, including those of Montana American Indians.

IEFA Essential Understanding 1 There is great diversity among the 12 tribal Nations of Montana in their languages, cultures, histories and governments. Each Nation has a distinct and unique cultural heritage that contributes to modern Montana.

IEFA Essential Understanding 4 Reservations are lands that have been reserved by the tribes for their own use through treaties, statutes, and executive orders and were not “given” to them. The principle that land should be acquired from the Indians only through their consent with treaties involved three assumptions:

- I. Both parties to treaties were sovereign powers.*
- II. Indian tribes had some form of transferable title to the land.*
- III. Acquisition of Indian lands was solely a government matter not to be left to individual colonists.*

IEFA Essential Understanding 5 Federal policies, put into place throughout American history, have affected Indian people and still shape who they are today. Much of Indian history can be related through several major federal policy periods:

Colonization Period 1492 -

Treaty Period 1789 - 1871

Allotment Period 1887 - 1934

Boarding School Period 1879 - - -

Tribal Reorganization Period 1934 - 1958

Termination Period 1953 - 1988

Self-determination 1975 – current



Graphing Native American Populations – Grade 5

Student Background Knowledge

- How to make a double bar graph using appropriate labels, key, scale, and title.
- The locations of the Montana reservations.

Understandings

- The number of enrolled members of each tribe living on the reservation compared to those living off of the reservation.

Essential Questions

- How many enrolled members of each tribe live on the reservations?
- How many enrolled members of each tribe live off of the reservations?
- What is the total population of each of the tribes represented both living on or off of the reservation?
- What is the total Native American population in the state of Montana given the information you have?

Students will be able to...

- design a graph using appropriate labels, key, scale, and title.
- compare populations of the reservations for those living on, off, or combined.

Students will know...

- the populations of the Blackfeet, Crow, Flathead, Ft. Belknap, and Northern Cheyenne Reservations.
- how to correctly input data into a graph using appropriate labels, key, scale, and title.

Stage 2 Assessment Evidence

Performance Tasks

1. Finished product will be a complete double bar graph representing five reservations and their enrolled member population that live on the reservation and the number of enrolled members living off of the reservations.
2. On the back of the graph, students will answer the Essential Questions from above. Refer to Reservation Populations (attached at the end of this lesson) for answers.

Stage 3 Learning Plan

Learning Activities

Download the Montana Office of Public Instruction Indian Education Division publication *Montana Indians Their History and Location*. Share with the students on a projector or make copies for groups to

Graphing Native American Populations – Grade 5

share as you read through it. As you read through the information, stop periodically and check for understanding by asking questions about the population, history, land amount, or other interesting facts of a tribe you've just read about.

Upon completing the reading, discuss populations on and off of the reservation and talk about why they

would leave the reservation. This information can be found in *Montana Indians Their History and Location* under the section titled "Montana Urban Indians."

Handout the graph paper and a copy of reservation populations (below) to each student. Explain to the students they are going to design a double bar graph comparing those living on and those living off of the reservations. Let them know they are going to need to use two coloring tools, one for each group.

The finished product will be a double bar graph representing the seven reservations and their enrolled member population that live on the reservation and the number of enrolled members living off of the reservations.

On the back of the graph, have students answer the Essential Questions from above. Refer to Reservation Populations for answers.

Materials/Resources Needed

[Montana Indians Their History and Location](#), Helena, MT: Montana Office of Public Instruction, 2016.

Copies of reservation populations (below) for each student.

Graph paper

Coloring tools

Rulers

Pencils

Reservation Populations

Blackfeet Reservation

Enrolled members living on or near the Blackfeet Reservation	9,585
Enrolled members living off the Blackfeet Reservation	7,665
Total number of enrolled Blackfeet tribal members	17,250

Crow Reservation

Tribal members living on or near the Crow Reservation	10,000
Tribal members living off the Crow Reservation	5,000
Total number of Crow tribal members	15,000

Flathead Reservation

Enrolled members living on or near the Flathead Reservation	5,000
Enrolled members living off the Flathead Reservation	2,920
Total number of enrolled Flathead tribal members	15,000

Fort Belknap Reservation

Enrolled members living on or near the Fort Belknap Reservation	4,546
Enrolled members living off the Fort Belknap Reservation	2,826
Total number of enrolled Fort Belknap tribal members	7,372

Northern Cheyenne Reservation

Enrolled members living on or near the N. Cheyenne Reservation	4,939
Enrolled members living off the Northern Cheyenne Reservation	5,901
Total number of enrolled Northern Cheyenne tribal members	10,840

