



Based only upon geographic distance with which population would you expect Cady mountain sheep to show more signs of mating: Newberry, Old Dad, or Granite sheep? Why?







Based <u>only</u> upon geographic distance with which population would you expect Cady mountain sheep to show more signs of mating: Newberry, Old Dad, or Granite sheep? Why?



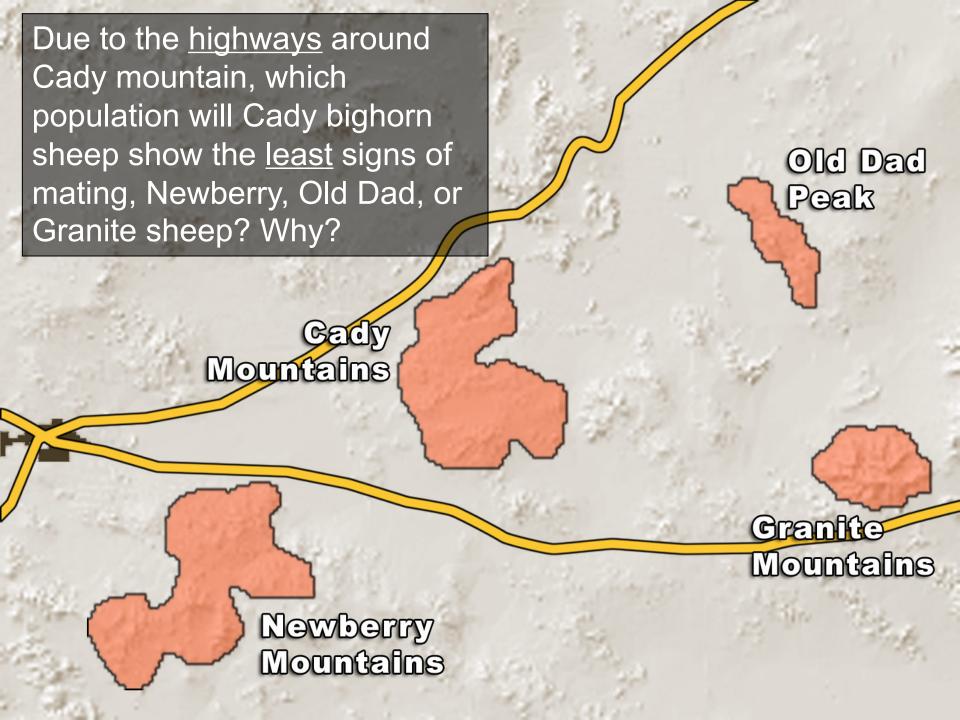
Newberry

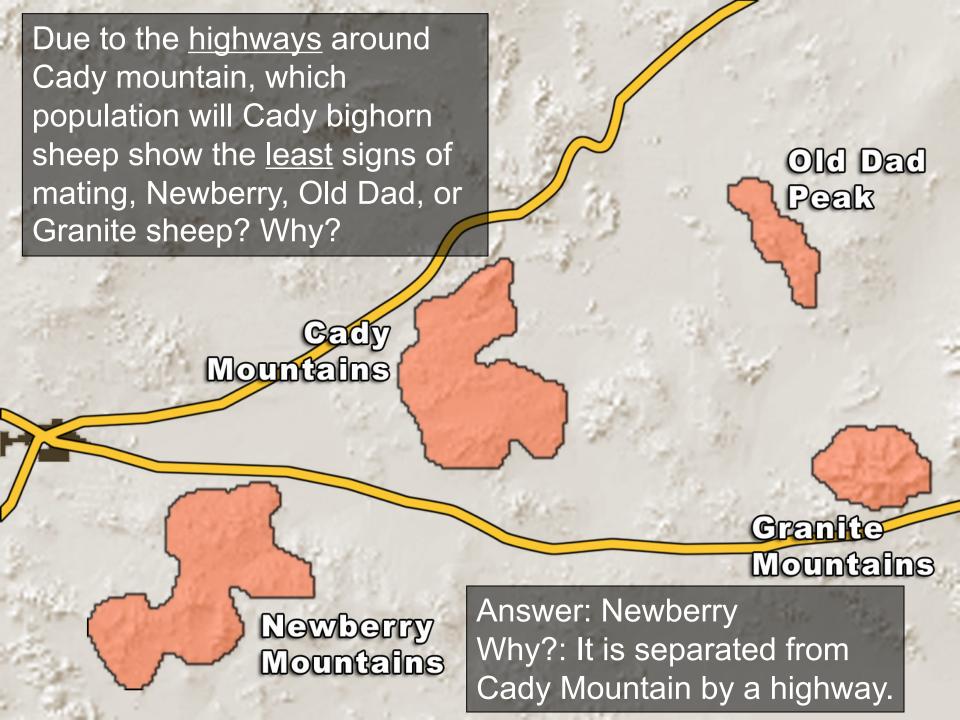
Mountains





Answer: Newberry Why? It is the closest.





Instructions for Analysis

STEP 1:

- a. Use a metric ruler to measure the <u>minimum</u> distance in millimeters between mountain tops.
- b. Based on these measurements, predict which populations will have the highest level of inter-breeding.

STEP 2:

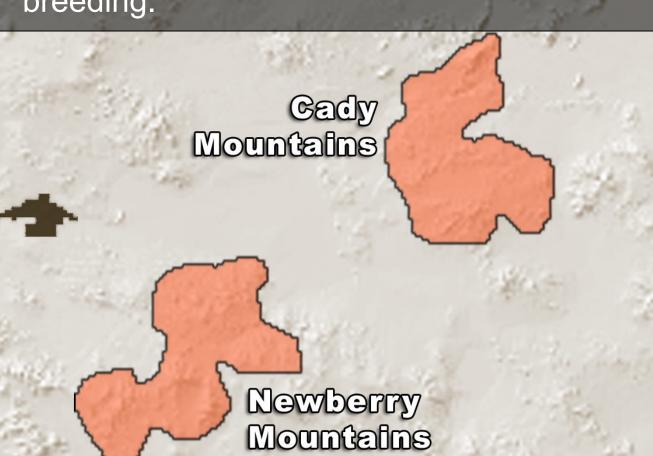
Then use the genetic data (arrows), draw double-headed arrows to connect populations to signify the documented level of breeding between populations. More arrows show more connection, i.e., more breeding; fewer arrows show less connection, i.e., less breeding.

STEP 3:

- a. Answer questions to compare your results from step 1 and step2.
- b. Predict highway location and draw it on map.

STEP 1:

- 1.Use a metric ruler to measure the minimum distance in millimeters between mountain tops.
- 2.Based on these measurements, predict which populations will have the highest level of interbreeding.

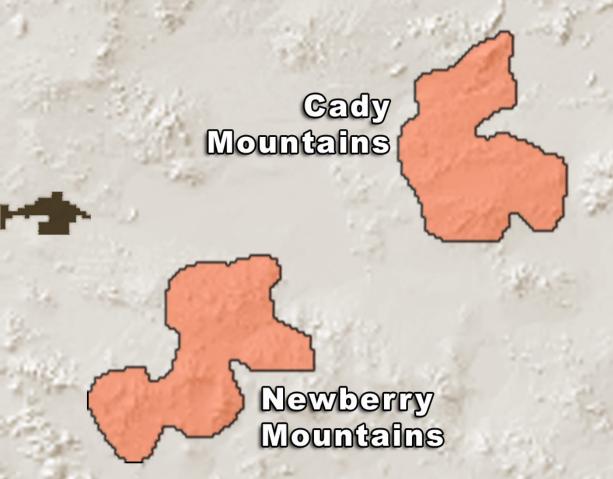


Old Dad Peak



STEP 2: Using the genetic data (arrows), draw double-headed arrows to connect populations to signify the breeding levels between populations.

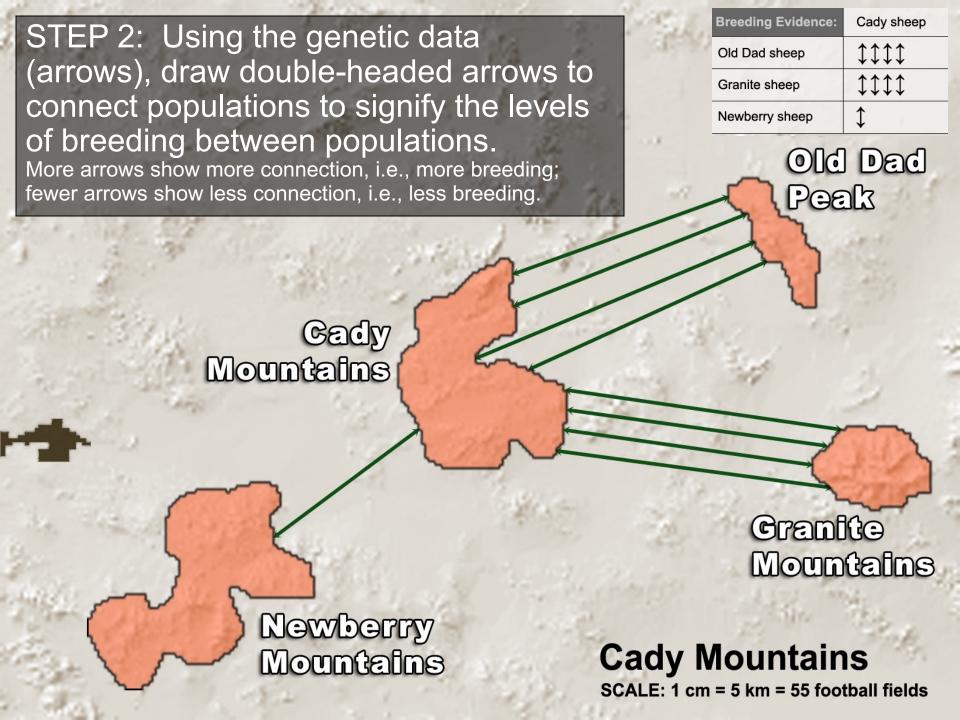
More arrows show more connection, i.e., more breeding; fewer arrows show less connection, i.e., less breeding.

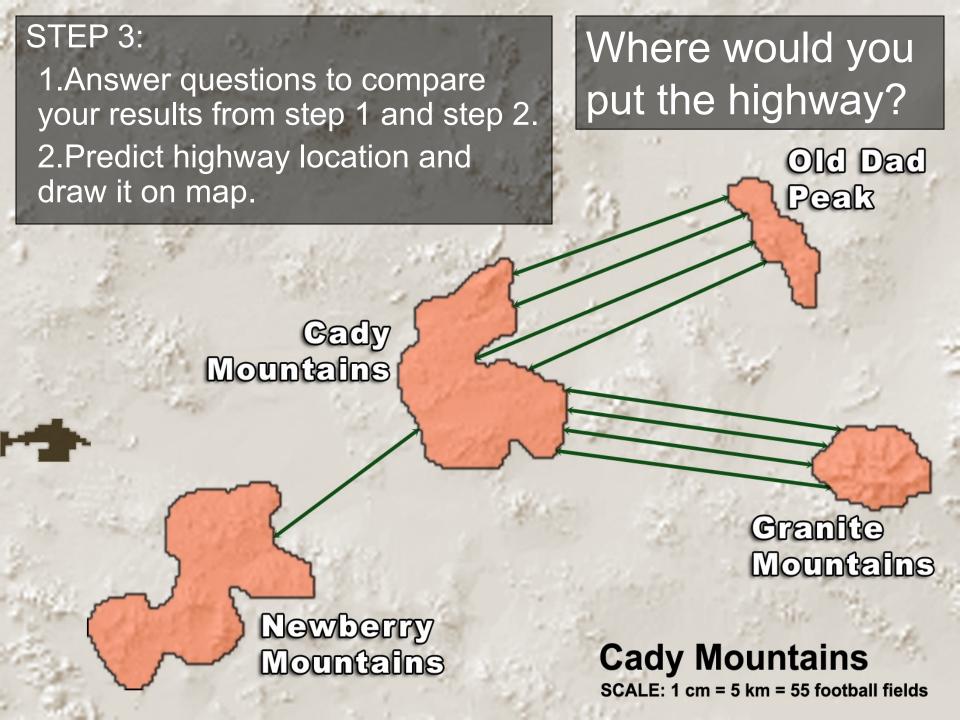


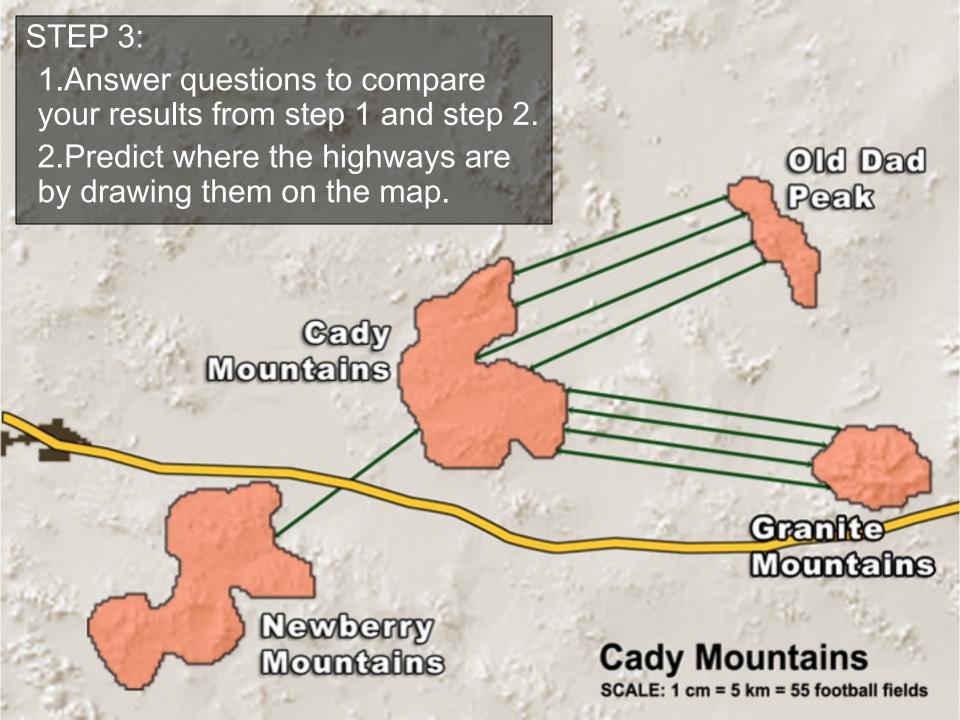
Breeding Evidence:	Cady sheep
Old Dad sheep	\$\$\$\$
Granite sheep	\$\$\$\$
Newberry sheep	1











After completing your analysis, transfer your data onto this overview map. Draw lines that signify the genetic data and draw highways based upon those line data.

