McKinley County is a very large county. In fact it is the sixth largest county in New Mexico. Three counties in New Mexico border it: San Juan County to the North, Sandoval County to the East, and Cibola County to the South. Apache County in Arizona borders it to the West. The county website has the area of McKinley County as having 5,449 square miles. Here is your challenge:

The map below shows my drawing of McKinley County. The numbers around the borders represent the approximate distance in miles. Some numbers are missing but are represented by the letters $a$, $b$, and $c$.

1. Tell me the miles that these letters represent.

   $a = \text{______ miles}$  $b = \text{______ miles}$  $c = \text{______ miles}$

2. Using the formula for area of a rectangle find the area in square miles of McKinley County. (You can divide the map into several smaller rectangles). Is your answer the same as the website?

3. What is the perimeter of McKinley County?

If you need a calculator to help you please use one. However, you must show me all of your work. GOOD LUCK!!!

Email answers to: tkaus@unm.edu