Problem 1

Nation U Nation A

800 million people 300 million people

1.4 trillion kilowatt hours 134 billion kilowatt hours

Calculate per capita electricity consumption and name one human and one physical characteristic of each nation.

Problem 2

A nation with an economy that specializes in cotton requires $40/person for education, $50/person for healthcare, and $60/person for infrastructure. There are 70 million people in the nation. It produces 5.25 billion pounds of cotton. In three successive years the price of cotton is $1.75/pound, $2.50/pound and $2.00/pound. Calculate the per capita cost and total cost in the nation. Calculate the revenue and quantify the shortage or surplus in each year.

Describe a possible event that will cause the prices changes in each year.