

Math Lesson for 10 Towns that Changed America – Mathematical Analysis of St. Augustine

Name_____

Date_____

Directions: With your partner, answer the following questions about the historic map of St. Augustine. Use your ruler and the scale at the bottom of the map. Unless otherwise indicated, write your answers in *feet*. For each question, write a mathematical sentence or equation to show how you got your answer.

- 1) Look at the scale. 165 feet is represented by what unit of measure?_____
 - 2) How many feet are there in one furlong?_____
 - 3) How many feet are in one toise? (A toise [pronounced 'twoz'] is a colonial unit of measurement for length, area, and volume.)_____
 - 4) Using the scale at the bottom of the map, determine the dimensions of each town block. You may label them right on the map.
 - 5) How many square feet is the average block?_____
 - 6) What are the dimensions of the public plaza?_____
 - 7) How many square feet is the public plaza?_____
 - 8) How wide are the wide streets?_____
 - 9) How wide are the narrow streets?_____
 - 10) Look at all of your findings. Is there a pattern? If so, describe it here._____
_____.
 - 11) What does this pattern (or the lack thereof) tell you about the Spaniards' view of town planning?_____
 - 12) What do you notice about the orientation of the narrow and wide streets? In other words, are they running east-west or north-south?_____
- Why do you think they laid out the streets like this? (Hint: Think of the sun and the heat in Florida.)_____