

Name & Date: © Citizen Math 2020

Part One: Growing Pains?

Every year, thousands of people move to Seattle, Washington. The following graphs show how the median annual income for a household and the median annual rent changed in the city from 2010 to 2019 (where year 0 = 2010, 1 = 2011, etc.). Based on the graphs, would you conclude that the typical household was better off or worse off over time? Explain.

Seattle, Washington (2010-2019)



The graph below shows the relationship between the median annual rent and the median household income in Seattle between 2010 and 2019. What does the equation tell you, and how do you expect this would affect residents there?



Part Two: Moonlight Sleeping

Across the United States, more than 500,000 people are experiencing homelessness at any given moment. Many had homes but lost them when they could no longer afford the rent. Watch the video about some of these people.

Then analyze the graphs below describing homelessness in Seattle and explain what they tell you. Based on this, if you sketched a graph of Seattle's homeless population vs. its median *income*, what do you expect it would look like?



In 2017, internet giant Amazon announced that it would build a second headquarters somewhere in North America. It promised 50,000 new highly-paid jobs and invited cities to apply to be home of the so-called "HQ2."

If you were the mayor of a city or town, what factors would you consider in deciding whether to recruit a company like Amazon to your area, and how would you prevent or address negative consequences like homelessness?