

Unit 10 Discussion Example – Post 2: Reply to a Classmate

Hi Classmate!

- Your equation population model for King County, WA:

$$P(t) = 1,737,081 \times e^{0.0106 t}$$

The current year is 2020, so $t = 20$.

- $P(20) = 1,737,081 \times e^{(0.0106 \times 20)}$

$$P(20) = 1,737,081 \times e^{(0.212)}$$

$$P(20) = 1,737,081 \times e^{(0.212)}$$

$$P(20) = 1,737,081 \times 1.2361$$

$P(20) = 2147289.0044$ or rounded to 2,147,289 people

- A quick search on Google showed the population in 2019 for King County, WA to be 2,252,782 people. My number is 2.15 million, so your model only slightly underestimated the population in 2019/20.