

Density

1. The population of Antioch as of July 1, 2015 is 14,653. This has been a substantially increasing for the last 20 years. The borders of Antioch have also been expanding. Currently Antioch covers 8.06 miles².

a. Find the density of Antioch (be sure to include the correct label).

b. How much difference would adding 1000 people do to the density?

c. How many people would need to move out to reduce the density to only 1500 people/mi²?

2. The student enrollment for Lakes High School was 1330. If there are 63 different classrooms, what is the density of each of these rooms?

3. Illinois has an area of 57,915 mi². If there are an estimated 750,000 deer in Illinois, what is the deer density of Illinois?