**A Kentucky Lesson about Population and Development**

Note: I developed it for the Bowling Green area (you can adapt it for your area)

Open up the following [link](http://nation.maps.arcgis.com/apps/SimpleViewer/index.html?appid=a6cb3e1caa7549418b1a5945bcb36717)

**Question 1:**

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|  | Go to the following [weblink](http://nation.maps.arcgis.com/apps/SimpleViewer/index.html?appid=a6cb3e1caa7549418b1a5945bcb36717)**Scenario**The new startup company Build for Us has had so much success that they are looking to expand.  The company know that any geographic location that is increasing in population requires more housing and would need to buy more material from Build for Us.  They have asked for an analysis of counties and even sections of counties that would be a good place to locate new Build for Us facilities.  They are looking for both general areas in the United States and Specific areas in certain counties. 1:  Click the USA population Change Map and zoom out to see contiguous USA (48 states).  This multi scale map allows you to view geographic data across a range of scales. What is the first spatial component that is seen at the US level?Multiple choice:Countries, State, **Counties**, Census Tracks**Question 2**

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|  | Fulton county (the farthest southwest county in Kentucky (south of cape Girardeau)) is the only county in our state that is colored dark red.Notice that it has a little "bubble" on the southwestern corner.  Click on the county to research the data.2:  Fulton County's population changed by \_\_\_ % from 2000 to 2010.Reference: [Kentucky County Map](http://www.digital-topo-maps.com/county-map/kentucky-county-map.gif) |

**Answer: -1.09****Question 3**

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|  | What is the annual growth rate in Warren County, KY (Bowling Green) between 2010 and 2015? |

**Answer: 1.72%****Question 4**Boone County, in Northern Kentucky (just southwest of Cincinnati) had an annual growth rate of 4.1 during what years?**Answer:** 1990-2000**Question 5**Center your screen on the Cincinnati area and zoom in as far as you can before the map changes away from the county outlines.zoom one step closer so the map changes from counties to sections in counties (census track data).Study the Cincinnati area, Louisville (Jefferson County) area and Lexington (Fayette) area in Kentucky.**Note:** Population density increases as the polygons decrease in size3:  What is the pattern that you see?**Answer:**

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|  | Negative population change in the city centers.People are moving out of the city center to the surrounding areas. |

**Question 6:**

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|  | Build For Us has asked for written spatial descriptions of the United States, individual states, and specific counties.  They will use these descriptions along with the map to decide where to locate new Build For Us stores.In one sentence, describe an area in the US that has the best potential for a series of five Build for Us stores.  |

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**Answer:**

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|  | There are a number of potential areas for the reader to select.  The best answers will center on a large city, and suggest dark green counties.Good Answer:  I suggest that Build for Us place five stores in the Atlanta metropolitan area with three of the stores being built north of the city, and two stores in the southern suburbs |

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|  | **Question 7:**Zoom into Warren County.  Currently there are two big box stores that could compete with Build for Us.  Both  Lowes and Home Depot are located in the Eastland Park/Shawnee Estates neighborhood -just south of the city.  **Note:**If you zoom in, you can see Campbell lane separates the two neighborhoods. In one sentence suggest an area in Warren County where Build for Us could locate a store.**Answer:** Answers will vary.  I would locate the store on the eastern side of Warren County in an area that has traffic accessibility along with growing populations. |

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|  | **Question 8:**In one sentence, describe how can state, county and city agencies use this information**Answer:** Answers will vary. Managing ***growth*** for services (Police, Fire, schools), and infrastructure (electricity, road development, sewer/gas) is always a challenge.  When people ***move away***, maintaining a services and infrastructure is an even larger burden.You can easily tailor this quiz to center on your individual area. –Scott Dobler |