



Answers to book questions

Chapter 2

On which continent are PM concentrations highest?

A: Africa.

If you close your Contents pane, how do you restore it?

A: On the View tab, click the Contents button.

How do you find a geoprocessing tool?

A: On the Analysis tab, click the Tools button.

Which city has the largest population?

A: Shanghai.

What is the height of the tallest building in this layer?

A: 339.75 feet.

Chapter 3

What is the field name that indicates the state within which the county features are located?

A: State_Name.

How many residents of Wayne County are between the ages of 22 and 29?

A: 10, 575.

How many years of data are represented in the table?

A: Seven years: 2004–10.

Do you see a clear correlation between income and 2010 obesity rates? Explain.

A: There appears to be no obvious correlation.

What percentage of households have an income of less than \$15,000 per year?

A: 25.9 percent (statistics may change).

How many food deserts are in Knox County?

A: Four.

Chapter 4

Refer to the Modify Features pane: How many vertices does the selected line have?

A: Four.

What happened to the Shape_Area value of the original water pressure zone?

A: It automatically updated to reflect the new area of each new, smaller zone.

Chapter 5

Name two types of conflict events that are recorded in this dataset.

A: Answers will vary (Violence against civilians; Riots/Protests; Battle–No change of territory; Non-violent activity by a conflict actor; Battle–Non-state actor overtakes territory; Non-violent transfer of territory; Battle–government regains territory).

According to ACLED statistics, how many fatalities resulted from violent conflicts against Sudanese civilians between 2003 and 2013?

A: 8,346.

How many fatalities resulted from conflicts classified as “violence against civilians” in Rwanda from 2003 to 2013?

A: 132.

How many events classified as riots/protests occurred in Rwanda between 2003 and 2013?
How many fatalities resulted from these events?

A: 18 riots/protests and zero fatalities.

Which geoprocessing tools are combined in this script?

A: Select Layer By Attribute and Summary Statistics.

How many fatalities resulted from conflicts classified as “violence against civilians” in Nigeria from 2003 to 2013?

A: 6,999.

Chapter 7

What is the closest social service site to the Pueblo Del Rio public housing site?

A: Slauson Senior Citizen Center.

Chapter 9

What is the geographic coordinate system of ned_property?

A: GCS North American 1983.

What is the projected coordinate system of property_boundary_poly?

A: WGS 1984 UTM Zone 10N.

Is any part of the property in complete shadow at this time?

A: No—you can tell because the lowest value is 22.

How many planting sites contain mostly low-slope (less than 14 percent) topology?

A: Three.

How many potential planting sites include at least some land that faces south, southeast, or southwest? (Zoom in and pan as needed.)

A: Answers may vary; either three or four (the fourth has a very small amount of southern-facing land).

Are any of the potential planting sites in shadow at 2:00 p.m. in mid-September?

A: No.

Can you identify a planting site that meets the slope and aspect criteria and also has decent sun exposure at 4:30 p.m., thus revealing the best site to plant the new vineyard?

A: The upper-left site fits all criteria the best.

What soil type(s) are represented in your top-choice planting sites?

A: Greenfield fine sandy loam, 9 to 15 percent slopes.

Which of the potential sites was actually planted?

A: The site in the middle of the three adjacent top picks (the largest site).

Chapter 10

How many areas are considered to be of fixed wireless technology?

A: 43.