

Worksheet for Assignment #1

Use this worksheet to complete the assignment. The completed worksheet can be longer than one page. There are some sample responses (the shaded cells) provided to you as a guide. Remove those before you begin!

Part 1: Develop Hypotheses

Hypothesis (1 sentence)	Rationale (2-3 sentences)
Hypothesis 1: Top tier Housing prices in Los Angeles is much expensive than those in Philadelphia.	Los Angeles is urbanized and has beautiful landscape. Also, many entertaining places in the city.
Hypothesis 2: Gasoline price in Los Angeles is less expensive than Philadelphia.	California has the oilfield so that Los Angeles is able to maintain low-oil price against Philadelphia.
Hypothesis 3: Los Angeles records less crime rate than Philadelphia.	Los Angeles is the second largest city in the United States. Therefore, the big city basically might have a good security environment.
Hypothesis 4: Monthly temperatures in Los Angeles is higher than those in Philadelphia.	California where Los Angeles belongs to locates around the west coast area of the U.S., and it is generally hot during four seasons.
Hypothesis 5: Los Angeles has more job opportunities by the federal government related to international affairs and gives higher income than those in Philadelphia.	Los Angeles is the second largest city in the United States, so it needs a lot of the federal agency workers to deal with lots of work.

Part 2: Identify Data Sets

Data Set	Name	URL	Instructions
1	Los Angeles Home Price and Home Value	http://www.zillow.com/philadelphia-pa/home-values/	Click “View Data Table” in Los Angeles Market Overview and “Download Full Data”
2	Philadelphia Home Price and Home Value	http://www.zillow.com/philadelphia-pa/home-values/	Click “View Data Table” in Philadelphia Market Overview and “Download Full Data”
3	Los Angeles Monthly Gasoline – All Grades Prices	http://www.eia.gov/dnav/pet/pet_pri_gnd_a_epm0_pte_dpgal_m.htm	Product: Gasoline – All Grades Period: Monthly Show Data by: Area

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			Click “West Coast (PADD 5)” in the table and Click “Download series history”
4	Philadelphia Monthly Gasoline – All Grades Prices	http://www.eia.gov/dnav/pet/pet_pri_gnd_a_epm0_pte_dpgal_m.htm	Product: Gasoline – All Grades Period: Monthly Show Data by: Area Click “Central Atlantic (PADD 1B)” in the table and Click “Download series history”
5	California Offenses Known to Law Enforcement	http://www.fbi.gov/about-us/cjis/ucr/crime-in-the-u.s/2013/crime-in-the-u.s.-2013/tables/table-8/table-8-state-cuts/table-8-offenses-known-to-law-enforcement-california-by-city-2013.xls	Click “Download Excel”
6	Philadelphia Offenses Known to Law Enforcement	http://www.fbi.gov/about-us/cjis/ucr/crime-in-the-u.s/2013/crime-in-the-u.s.-2013/tables/table-8/table-8-state-cuts/table-8-pennsylvania	Click “Download Excel”
7	Los Angeles Average Monthly Temperatures	http://www.ncdc.noaa.gov/cag/	Parameter: Average Temperature Time Scale: Previous 12 month Start & End Year: 2014 State/Region: California Climate Division/City: Los Angeles
8	Philadelphia Average Monthly Temperatures	http://www.ncdc.noaa.gov/cag/	Parameter: Average Temperature Time Scale: Previous 12 month Start & End Year: 2014

			State/Region: Pennsylvania Climate Division/City: Philadelphia
9	2014 First Quarterly Census of Employment and Wages by all counties	http://www.bls.gov/cew/apps/table_maker/v3/table_maker.htm#type=1&year=2014&qtr=1&own=1&ind=92812&supp=0	Find “Los Angeles County, California” and “Philadelphia County, Pennsylvania”
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Part 3: Mapping Data to the Hypotheses (add rows as needed)

Hypothesis	Data	Source
Hypothesis 1: Top tier Housing prices in Los Angeles is much expensive than those in Philadelphia.	Los Angeles Home Price and Home Value	Data set #1
	Philadelphia Home Price and Home Value	Data set #2
Hypothesis 2: Gasoline price in Los Angeles is less expensive than Philadelphia.	Los Angeles Monthly Gasoline (All Grades Prices)	Data set #3
	Philadelphia Monthly Gasoline (All Grades Prices)	Data set #4
Hypothesis 3: Los Angeles records less crime rate than Philadelphia.	California Offenses Known to Law Enforcement	Data set #5
	Philadelphia Offenses Known to Law Enforcement	Data set #6
Hypothesis 4: Monthly temperatures in Los Angeles is higher than those in Philadelphia.	Los Angeles Average Monthly Temperatures	Data set #7
	Philadelphia Average Monthly Temperatures	Data set #8
Hypothesis 5: Los Angeles has more job opportunities by the federal government related to international affairs and gives higher income than those in Philadelphia.	2014 First Quarterly Census of Employment and Wages by all counties	Data set #9

