

# HOMEWORK №1

Prof. Adam Loy, Spring 2016

Due: April 1 by 4:00 pm

## Problem 1

The table below can be found in the February 2016 Pew Research Center, “Majority of Public Wants Senate to Act on Obama’s Court Nominee.”

### About half of conservative Reps say they won’t change mind about delaying hearings, regardless of nominee

*% who think the Senate should ...*

|                  | Hold<br>hearings,<br>vote on<br>Obama's<br>nominee | Not hold<br>hearings until<br>next president<br>nominates | Could you change your<br>mind depending on whom<br>Obama nominates? |         |         |
|------------------|--|---|---|---------|---------|
|                  | %  | %   | Yes<br>%  | No<br>% | DK<br>% |
| Total            | 56   | 38  | 10  | 26      | 6=100   |
| Republican       | 29   | 66  | 20  | 44      | 5=100   |
| Conservative Rep | 26   | 71  | 18  | 51      | 3=100   |
| Democrat         | 79   | 17  | 3   | 13      | 3=100   |
| Liberal Dem      | 85   | 15  | 3   | 10      | *=100   |
| Independent      | 56   | 37  | 10  | 26      | 7=100   |

Source: Survey conducted Feb. 18-21, 2016. Figures may not add to 100% because of rounding. “Don’t know” responses to follow-up question about changing mind not shown.

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- (a) Identify the cases.
- (b) Identify the variables.
- (c) Briefly explain why the data set is not tidy.
- (d) What might these data look like in tidy form?

## Problem 2

Find an example of tidy data on the internet that we have not discussed in class.

- (a) Give a brief description of your data set and a citation.
- (b) Identify the cases.
- (c) Identify the variables and state whether each is quantitative or categorical.

### Problem 3

Find an example of untidy data on the internet that we have not discussed in class.

- (a) Give a brief description of your data set and a citation.
- (b) Identify the cases.
- (c) Identify the variables and state whether each is quantitative or categorical.
- (d) Briefly explain why the data set is not tidy.
- (e) Explain what steps must be taken to tidy this data set. Providing a tidy version of the data set can be part of your answer, but you should also explain what steps you took.