Homework 1: basics

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Problem 1: recreate the plot below with python

New Marriage Rate by Education

Number of newly married adults per 1,000 marriage eligible adults

'08 '09 '10 '11 '12

All: 41.4 — 36.7
Less than high school: 26.8 — 23.4
High school graduate: 35.9 — 30.1
Some college: 42.5 — 36.5
Bachelor's degree or more: 61.5 — 56.7
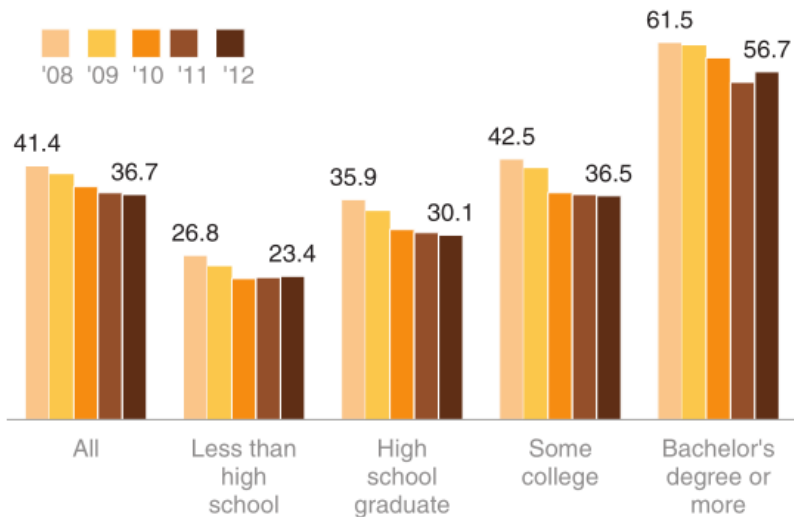
Note: Marriage eligible includes the newly married plus those widowed, divorced, or never married at interview.

Source: U.S. Census

Adapted from **PEW RESEARCH CENTER**

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Problem 2: recreate the plot below with python

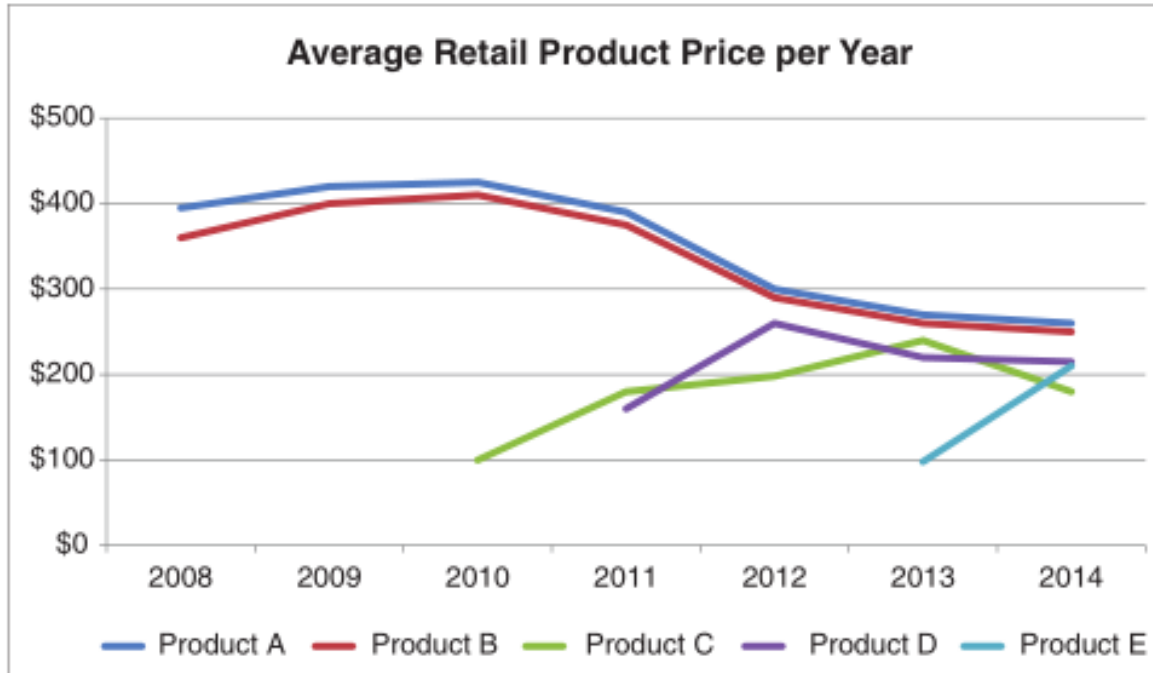## New marriage rate by education
Number of newly married adults per 1,000 marriage eligible adults

Bachelor's degree or more **62** ... **57**

Some college 43 ... 37
High school grad 36 ... 30
Less than high school 27 ... 23

2008 2009 2010 2011 2012

Problem 3: improve the plot below for product price data

Average Retail Product Price per Year

Product A — Product B — Product C — Product D — Product E

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The form of the result

- You submit Jupyter notebook exported as html

- Each problem is a separate top level block

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