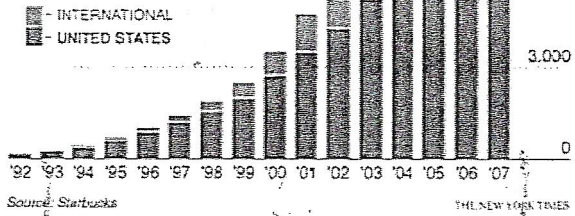


4. Estimate the domain and range for the following real-world data.

j) **A Starbucks On Every Corner**

Since going public in 1992, Starbucks has expanded at an ambitious pace. In September 2007, for example, it had opened more new Starbucks in previous year — nearly 2,600 — than the entire number of stores the company had in 1999.

Store counts at the end of September each year.

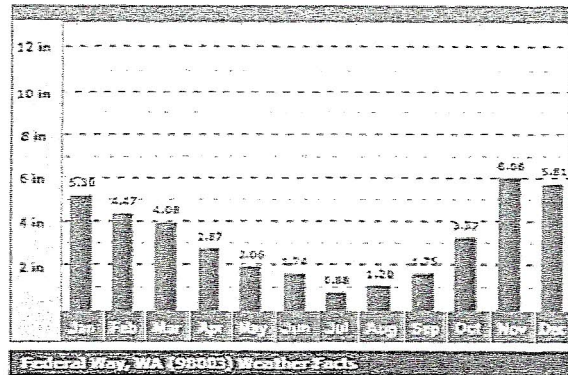


Source: http://www.nytimes.com/imagepages/2008/01/30/business/30SBUX_GRAPHIC.html

Domain:

Range:

k) Average monthly precipitation (in inches) for Federal Way.



Source:

<http://www.weather.com/outlook/travel/vacationplanner/wxclimatology/monthly/98003>

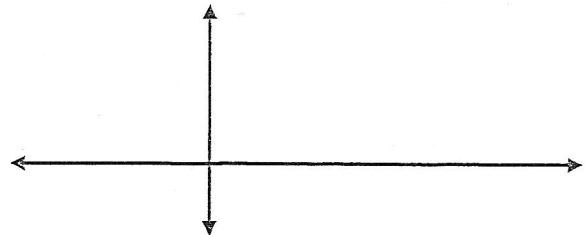
Domain:

Range:

Part II – Translating relationships to graphs and formulas

2. For each of the following stories, create a graph that shows how the quantities are related or vary. Don't worry about exact numbers – focus on whether things grow, shrink, are zero, big, etc.

a) The amount of gas in your car as you drive from the Seattle area to Spokane. Assume you start with half a tank of gas, drive until you're nearly empty, then fill the tank and continue on to Spokane. Let G be the amount of gas and m the number of miles you travel. (Think of G as a function of m .)



b) Your distance from home during a day in which you go to school and work (or some other location). Let D be your distance from home and t the time of day.

