1. In the 4-hour period that I recorded, I used PC (Apple Laptop – Macbook pro) for about 1.5 hours, phone (Apple iphone 5s) for about 0.5 hour. I do not use tablets or music devices
   a. I used Chrome browser to see webmail, social networking sites, read articles, play music on YouTube etc. on my laptop for about 1 hour.
   I also used Skype App to make video calls on my laptop for about 0.5 hour (30 mins)
   b. On my smartphone, I used WhatsApp App for texting and sending pictures to family and friends for about 10 mins.
   I used my smartphone to make calls for 15 mins
   I used splitwise app on my smartphone to share bills with my housemates on my smartphone for 5 mins.

2. a. I am assuming that the results of my technology log is my average usage for any 4 hour active period during the day. Assuming that I will be active for around 12 hours in a day, on an average I would spend 2 hours in each 4-hour period * 3 = 6 hours a day on technology
   I am assuming that we will be in Princeton for 8 months in a year (3 months of classes + 1 month of reading period and exams for each semester) which is around 240 days in a year.
   During 4 years at Princeton, I would use technology for 6 hours a day * 240 days in a year * 4 years = 5760 hours.
   b. I am assuming that there are 5000 (around 1,100 in each year and undergraduate course is for 4 years) Princeton undergraduate students and the average time any Princeton student spends on technology is same as my average technology usage. Hence, Princeton students would spend (5000 students * 6 hours a day * 240 days in a year) 7,200,000 hours in a year.
   c. I assume that there are 2000 colleges in USA and the average number of students in each college is around 5000 (Same as Princeton). Hence the total number of students in USA is (2000 colleges * 5000 students in each college) 10,000,000. Assuming that all the students in the country spend the same average time on technology as me, all students in the country would spend (10,000,000 students * 6 hours a day * 240 days) 14,400,000,000 hours using technology in a year.
   d. All students in the country spend 14,400,000,000 hours each year in using technology. If they forego using technology and instead walk, at the speed of 4 miles per hour, they would have walked 57,600,000,000 miles (14,400,000,000 hours * 4 miles per hour).
   e. I frequently travel to Boston and Boston to Princeton is approximately 300 miles, so for back and forth it is 600 miles. Hence it represents (57,600,000,000/600) 96,000,000 trips back and forth from Princeton to Boston.

3. a. In class we estimated that there are 100,000 gas stations in USA. Assuming that on an average each gas station has 5 pumps, and at each pump around 100 cars are fueled
each day, and each car on an average would fill around 10 gallons. Hence, (10 gallons per car * 100 cars pumped per day per pump * 5 pumps per gas station) 5000 gallons of gas are sold each day in each gas station.
So, (5000 gallons of gas sold each day in each station * 100,000 gas stations in USA) 500,000,000 gallons of gas are sold each day in USA.

b. Assuming that one gallon of gas costs $3, (3 dollar per gallon * 500,000,000 gallons sold each day in USA) $1,500,000,000 is spent on gas each day in USA.

c. A gallon of gas weighs 6.3 pounds, so weight of gasoline sold in a year is (365 days in a year * 6.3 pounds per gallon of gas * 500,000,000 gallons sold in a day) 1,149,750,000,000 pounds.
50 cents ($0.5) is the average tax collected per gallon of gas sold. Hence (365 days in a year * 0.5 dollar tax per gallon of gasoline * 500,000,000 gallons sold in a day) $91,250,000,000 tax is collected on annual gasoline sales.