Math 9 Assignment 8: Financial Literacy

Name:			

- 1. You borrow \$200 for 3 years at 10% interest.
 - a. Use the simple interest formula $I = P \times r \times t$ to roughly estimate how much you owe in 3 years.
 - b. Now recalculate the new interest at the end of each year. How much do you need to pay at the end of 3 years?
- 2. EQ Bank up to 3.5% cash back on your savings. If you have \$50,000 in this bank, how much do you earn on interest each month?

3. How much would you earn in a month after taxes if you work a full-time job at \$25 per hour? Assume that you are taxed at 20%.

4. Suppose your family makes \$100,000 which is taxed at an average rate of 25%. How much can you spend each day for all your expenses?

5. When paying off your mortgage, is it better to pay \$1000 to the bank 12 times a year, or pay \$500 bimonthly?

6.		anage to invest \$1 million by the time you retire. If your investments make 10% annual interest, nuch do you earn in interest each year?
7.	\$500,0	se the stock market crashes the day your retire. Your 1 million dollar savings crashes down to 000. According to the 4% rule, how much can you safely withdraw each year?
	b.	What is a criticism of the 4% rule?
8.	_	y off half your mortgage on a \$1.6 million home and own a car worth \$20,000. But you owe 00 on your credit cards. What is your net worth?
9.	Restau a.	rant Your family restaurant bill comes out to be \$200. Taxes is 12%. You decide to tip 15%. How much do you end up paying in total if tip is calculated after taxes?
	b.	You bring a dozen of your friends to a restaurant. The bill ends up being \$400. Taxes and 18% gratuity are included in the bill. How much extra should you tip?

C
e of

10. Planning a "best buy": At the supermarket orange juice is sold: