

Math 70
Quiz Extra Credit Assignment

This extra credit assignment is due at the beginning of the final exam. You can get up to 7 quiz points. **You must show all work to get credit.**

1. (2 pts.) Bill and Ted go to a restaurant and treat their friends to a great meal that costs \$120 total. Bill thinks that a 15% tip should be given on the after-tax amount and Ted thinks that a 15% tip should be given on the pre-tax amount.

Since restaurant taxes in Seattle are 9.3%, what would be the difference in tip for the server? (Round to the nearest cent.)

2. (1 pt.) Suppose you have a mutual fund in which you invested \$500 at the beginning of the year. At the end of the year, you have \$545. How much interest did you earn on your investment over that year and what **percentage** of your investment did you earn in interest?
3. (2 pts.) Suppose your gas mileage is 32 miles per gallon. What would that same gas mileage be in kilometers per liter? (See Appendix B for the necessary conversion rates.)
4. (2 pts.) Suppose you wanted to get a room with the floor plan below carpeted. If carpet costs \$4 per square foot to install, what will the total bill for the carpet be?

