

Homework 3—Taxi Cab Fare and Tip Calculator

10 points

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| Due: | Saturday 1/24, 5pm |
| Assignment: | Create two php files as described below that calculate a car's miles per gallon. Name the main page "hw3.php", call the second page whatever you wish. Publish both onto cslab.bc.edu |
| Turn In: | Submit a copy of your .php files to BBV. Include a link to your page in the comment area of the submission. |

For this assignment, you'll make a calculator that calculates a taxi cab fare, given the distance travelled, tolls and the quality of service. Information about Boston Taxi Rates can be found here: http://www.cityofboston.gov/police/hackney/taxi_rates.asp

The calculator should look something like this.
The tip percentages for quality of service are:

- Poor 10%
- Acceptable 15%
- Good 20%
- Outstanding 25%

Use CSS to make the fields line up.

When the calculate button is pressed, the user should be taken to a second page that shows the results, something like this. Note that the second page has a link back to the first page, so the user can do another calculation.

Notes:

- Choose reasonable names for your input text field names and your variables, something that describes its meaning. Don't use something cryptic like \$X, it's not obvious what \$X means.
- Be sure to use quite a few test cases. Make sure you test all quality of service buttons, and a variety of distances and tolls.
- The php function `ceil()` can get the smallest integer greater than a floating point number. This is useful to get the number of 1/7 of a mile increments.
- The php function `number_format(num, precision)` can be used with a number and precision set to 2 to get dollars and cents.
- The php function `print_r($_GET)` can be used to dump all the get variables for debugging. Note that for this assignment use `method="get"` in your form.