

**Programming I**  
**Overview of C++ - Data Types and Variables**  
**Program #3 - MPG**

You are to type in the **mpg.cpp** program given. You should type it in as is making any adjustments to formatting that you wish. (You should be starting to develop your own style by now.)

Run the program using 245 miles traveled, 17 gallons of gas used, and \$3.459 as the cost per gallons.

When the program runs successfully make your typescript and submit it.

THEN, you are going to modify your program slightly and run it again. Opening mpg.cpp back up and change the original variable types from **float** to **int**.

Save the new program as mpg2.cpp.

Recompile and rerun the program with the same data.

What changed this time? Is the new program better or worse than the original?

Comment somewhere in your program your observations and then make your typescript and submit this program as well.

Remember, you must include in the typescript file a copy of the program, the compile line, and the program output. Remember that programs are due at or before the beginning of class!