Name:

Do your work in this directory:

/data/courses/ece\_1111/current/quizzes/qu\_10/lastname\_firstname

Follow our usual procedures using make files, etc. The main program name should be *myprog.cc*. The functions should be included in *myfuncts\_00.cc*. The class definition and any required include files should be included in *myprog.h*. Make sure your directory permissions are set so that only you can view the contents of the directory.

Write a C++ class that models a cardboard box. The class should have internal data that includes the color of the box, floating-point variables for the length, width and height. You have to support three functions:

1. A constructor that takes the color and dimensions as arguments.
2. A method named “display” that takes a file pointer as an argument and displays the current values of the internal data.
3. A method named “volume” that computes the volume and returns the volume as a floating-point number.

Your main program should support this interface:

myprog.exe brown 1.0 2.1 3.3

It should call the display method and print to stdout. It should also print out the volume using your volume function.