

CPS 150-N1
Assignment 1
Fall 2004

Date Assigned: August 30, 2004

Date Due: September 1, in class, before class begins.

Turn in a printout of your source code and a screen capture of your results.

A metric ton is 35,273.92 ounces. Write a program which reads the weight of a package of breakfast cereal in ounces and outputs the weight in metric tons as well as the number of boxes needed to yield one metric ton of cereal.

For full credit, you must meet the following requirements:

- Use a constant (declared before `main`) of type `double` for ounces per ton (35273.92).
- Comment your code into these sections:
 - declare variables (you will need three variables of type `double`: one for the weight in ounces, one for the weight in metric tons, and one for the number of boxes needed to make one ton)
 - read user input (the weight of the cereal in ounces is the only input required and a prompt for input is unnecessary)
 - calculate weight in metric tons (use the constant declared earlier, NOT the actual number 35273.92 in this formula)
 - compute number of boxes needed to make one ton of cereal
 - output results (weight in metric tons of one box, number of boxes required for one ton) using 2 digits of precision
- Follow the guidelines as given in the Style Requirements handout.