Math 102   Little Quiz #4

Sept. 20, 1996   Name_____
                                                           Please Print

1.   You have a two pan weighing balance and an unlimited supply of five and
      seven pound weights. Sugar is put up in sacks of whole numbers of
      pounds Obviously, you can weigh sacks of 5, 7, 10, 12, 14, etc. pounds.

      (a).   Show that you can weigh a six pound sack.

      (b)   Show that you can weigh a one pound sack.

      (c)   Is it possible to weigh sacks of all (whole number) sizes?