- 5. [12 points] Percy is analyzing the cost of feeding the animals on his uncle's farm.
  - Suppose W(p) is the total amount of pig food, in pounds, consumed by p pigs each day.
  - Suppose C(x) is the cost, in dollars, of x pounds of pig food.
  - Suppose there are N pigs on the farm on May 1.
  - Suppose the cost of the food consumed by the **goats** on May 1 was K dollars.
  - a. [6 points] Write a practical interpretation of the following expressions.

C(W(37))

 $W^{-1}(111)$ 

**b.** [6 points] For each description below, write an expression using function notation and possibly the numbers K and N from above that gives the quantity described. Circle your answers.

The average amount of food, in pounds, consumed per pig on the farm on May 1.

The cost of z ounces of pig food. (Hint: There are 16 ounces in one pound.)

The total cost, in dollars, of the goat food and the pig food consumed by the animals on May 1.