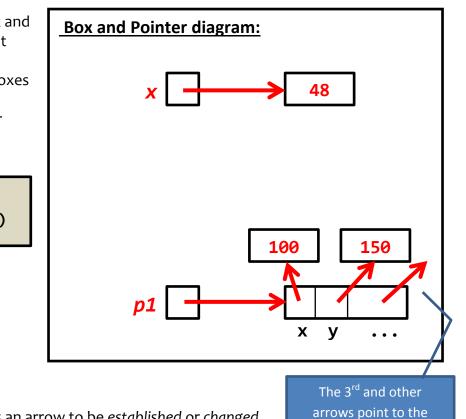
Name:

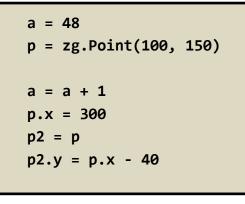
1. With your instructor, draw a Box and Pointer diagram that shows what happens when the following statements execute. (Use the boxes we supplied; just add labels and arrows for variables and data for objects.)

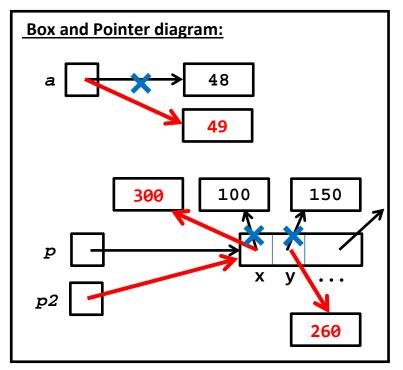
> x = 48p1 = zg.Point(100, 150)



2. An **assignment statement** causes an arrow to be established or changed. That's true for fields as well as ordinary variables. The arrows always point to objects, never to other variables.

With your instructor, draw a Box and Pointer diagram that shows what happens when the statements below execute. (We've already done the first two statements.)





Point's color, etc.

In doing this exercise, note that it is

perfectly OK to have two variables refer to the *same* object.

3. A *function call* creates a new *namespace* in which the function will run. The *parameters* are variables in that namespace. When the function is called, the first thing that happens is that each parameter is assigned the *value* of the corresponding actual argument.

For example, in the code snippet below when **foo(100, x)** executes, the parameter **a** is assigned the value 100, just as if the statement **a = 100** were executed.

