Writing a System of Equations to Solve Problems Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Worksheet 2

Write and solve a system of equations to solve each problem. **Define each variable first.** Show all work.

1) At Maria’s Printing Company, there are two kinds of printing presses: Model A which can print

70 books per day and Model B which can print 55 books per day. The company owns 14 presses

in all and prints 905 books per day. How many of each type of press does Maria’s company

have?

2) There are 13 animals at Andrew’s Petting Farm. Some are chickens and some are cows. There

are 40 legs in all. Find the number of each animal.

3) Iman and Hassan are selling candy for a school fundraiser. Customers can buy small boxes of

candy and large boxes of candy. Iman sold 3 small boxes and 14 large boxes for a total of $203.

Hassan sold 11 boxes of each size for a total of $220. Find the cost of a small box and the price

of a large box.

4) Hannah’s bookstore took in $167 on the sale of 5 copies of a new cookbook and 3 copies of

a new novel. The next day, 3 copies of the cookbook and 1 copy of the new novel were sold

for $89. Find the cost of each book.