## Solving Systems of Equations Word Problems

| L.             | Use two different variables to represents the unknowns.  |   |   |   |  |
|----------------|--|---|---|---|--|
|                | Let x =<br>Let y =   |   |   |   |  |
| 2.<br>3.<br>1. | Translate the two relationships in the problem into two different equations.  Solve the system of equations.  Check your answers in both equations.  Write your answer in a statement. |   |   |   |  |
|                |  | ost \$1.00 each if purchased in advance of the dance but \$<br>dvance and how many were sold at the door? | \$1.50 if bought at the door. If 100 ti | ckets were sold and \$120 was collected |  |
| Let            | X =  | Solve:  | Check one:                              | Statement:                              |  |
| Let            |  |   |   |   |  |
| Equ            | ations:  |   | Check two:                              |   |  |
| 2.             | Four bats and 9 baseballs cost \$7   | 76.50. Three bats and a dozen baseballs cost \$81. Find the   | ne price of 1 bat and 1 baseball.       |   |  |
| Let            | x =  | Solve:  | Check one:                              | Statement:                              |  |
| Let            | y =  |   |   |   |  |
| Equ            | ations:  |   | Check two:                              |   |  |

| week the store charged 36 days                                    | for ladders and 70 days for power tools, and earned \$829. How mu                     | ch does the store charge per day  | for ladders and for power tools?  |
|---|---|-----------------------------------|-----------------------------------|
| Let x =   | Solve:  | Check one:                        | Statement:                        |
| Let y =   |   |                                   |                                   |
| Equations:  |   | Check two:                        |                                   |
| 4. A dealer sold 200 tennis racquet                               | s. Some were sold at \$36 each and the rest were sold at \$66 each.                   | The total receipts from these sal | es were \$9600. How many racquets |
| did he sell at \$36 each?   |   | ·                                 |                                   |
| Let x =   | Solve:  | Check one:                        | Statement:                        |
|   |   |                                   |                                   |
| Let y =   |   |                                   |                                   |
| Equations:  |   | Check two:                        |                                   |
|   |   |                                   |                                   |
|   |   |                                   |                                   |
| 5. A test has twenty questions wor many multiple choice questions | th 100 points. The test consists of True/False questions worth 3 poi are on the test? | ints each and multiple choice que | estions worth 11 points each. How |
| Let x =   | Solve:  | Check one:                        | Statement:                        |
| Lakin   |   |                                   |                                   |
| Let y =   |   |                                   |                                   |
| Equations:  |   | Check two:                        |                                   |
|   |   |                                   |                                   |
|   |   |                                   |                                   |
|   |   |                                   |                                   |

3. A hardware store earned \$956.50 from renting ladders and power tools last week. The store charged for a total of 36 days for ladders and 85 days for power tools. This