

MasterMath

Name _____

Solving Systems of Equations

Date _____

1. Two small pitchers and one large pitcher can hold 8 cups of water. One large pitcher minus one small pitcher equals 2 cups of water. How many cups of water can each pitcher hold?

2 and 4



2. A test has twenty questions worth 100 points. The test consists of True/False questions worth 3 points each and multiple choice questions worth 11 points each. How many multiple choice questions are on the test?

5

3. Solve for x using these two equations: $2x + 6 = y$; $y - x = 2$

-4

4. Solve for y in Problem 3.

-2

5. Solve each of these problems for y

Expression 1	Expression 2	Solution
$x = 3y$	$x + y = 8$	2
$y = 3x$	$x + y = 8$	6
$2x - y = 15$	$y + 6 = x$	3
$x + 3 = y - 3$	$x = 3y$	-3
$2x + 3y = 20$	$y - 5 = x$	6
$3y + x = 16$	$x + y = 10$	3
$2x - y = 8$	$x + 8 = y$	24

6. Carol has 7 bills, all tens and twenties, that total \$100 in value. How many of each bill does she have?

\$10	\$20
4	3

7. Carlos spent \$3.60 for stamps to mail packages. Some were 30¢ stamps and the rest were 20¢ stamps. The number of 20¢ stamps was 2 less than the number of 30¢ stamps. How many stamps of each kind did Carlos buy?

\$.20	\$.30
6	8

