Name : _____ Score : _____

Teacher : _____ Date : _____

Cramers Rule with System of 3 Equations

Use Cramers Rule to solve each system.

1) - 3x - 5y - 5z = 84
- x + 6y + 6z = -94
- 6x - 6y - 6z = 156

2) 8x + 2y - 5z = 123
- 7x - 2y + 7z = -129
4x + 4y + 4z = 52

3) 8x + 7y + z = 46
3x - 9y - 8z = -206
7x + 7y + 7z = 112

4) - 7x - 5y - 7z = 87
- 8x + 3y - 8z = 82
3x + 3y + 3z = -39

5) - 7x + 2y - 5z = 46
- 2x + 5y - 2z = 72
6x + 6y + 6z = 36

6) - 6x - 6y - 3z = 45
2x + 2y + z = -15
- x - y - z = 9

7) - 7x + 6y + 8z = 117
- 5x + y - 7z = -44
8x + 8y + 8z = 80

8) - 5x - 5y + 3z = 147
- 7x - 7y - 9z = 45
8x + 8y + 8z = 88

9) 9x + 8y + 4z = 187
3x + 3y - 7z = 15
6x + 6y + 6z = 150

10) - 8x + y - 5z = 109
- 2x - 5y + 4z = -62
7x + 7y + 7z = -56

11) - 6x + 6y - 5z = 41
- 2x - 7y + 9z = -124
6x + 6y + 6z = 36

12) - 8x - y + 3z = 43
- 2x - 2y + 8z = -14
2x + 2y + 2z = 4

Name : _____ Score : _____

Teacher : _____ Date : _____

Cramers Rule with System of 3 Equations

Use Cramers Rule to solve each system.

1) $-3x - 5y - 5z = 84$
$-x + 6y + 6z = -94$
$-6x - 6y - 6z = 156$
No Solution

2) $8x + 2y - 5z = 123$
$-7x - 2y + 7z = -129$
$4x + 4y + 4z = 52$
(8 , 12 , -7)

3) $8x + 7y + z = 46$
$3x - 9y - 8z = -206$
$7x + 7y + 7z = 112$
(-6 , 12 , 10)

4) $-7x - 5y - 7z = 87$
$-8x + 3y - 8z = 82$
$3x + 3y + 3z = -39$
Infinitely Many Solutions

5) $-7x + 2y - 5z = 46$
$-2x + 5y - 2z = 72$
$6x + 6y + 6z = 36$
(4 , 12 , -10)

6) $-6x - 6y - 3z = 45$
$2x + 2y + z = -15$
$-x - y - z = 9$
Infinitely Many Solutions

7) $-7x + 6y + 8z = 117$
$-5x + y - 7z = -44$
$8x + 8y + 8z = 80$
(-3 , 4 , 9)

8) $-5x - 5y + 3z = 147$
$-7x - 7y - 9z = 45$
$8x + 8y + 8z = 88$
No Solution

9) $9x + 8y + 4z = 187$
$3x + 3y - 7z = 15$
$6x + 6y + 6z = 150$
(11 , 8 , 6)

10) $-8x + y - 5z = 109$
$-2x - 5y + 4z = -62$
$7x + 7y + 7z = -56$
(-7 , 8 , -9)

11) $-6x + 6y - 5z = 41$
$-2x - 7y + 9z = -124$
$6x + 6y + 6z = 36$
(6 , 7 , -7)

12) $-8x - y + 3z = 43$
$-2x - 2y + 8z = -14$
$2x + 2y + 2z = 4$
(-7 , 10 , -1)