

Name \_\_\_\_\_ Date \_\_\_\_\_ Hour \_\_\_\_\_

### 7.4-ELIMINATION- Extra Practice

**irections:** Solve each system of equations below by *eliminating* a variable from each system. In order to eliminate a variable, you will have to use multiplication or division to modify one/both equations.

*modified equations*

1)  $6x + 7y = 60$      $6x + 7y = 60$

~~-2(~~  $3x + 2y = 21$ ) ~~-~~  $6x + 4y = 42$

*modified equations*

2)  $8x + 9y = 82$

$2x + 2y = 20$

3)  $5x + 8y = 53$

$x + y = 10$

*modified equations*

$x = \underline{\hspace{2cm}}$      $y = \underline{\hspace{2cm}}$

$x = \underline{\hspace{2cm}}$      $y = \underline{\hspace{2cm}}$

$x = \underline{\hspace{2cm}}$      $y = \underline{\hspace{2cm}}$

4)  $4x + 3y = 56$

5)  $9x + 6y = 78$

6)  $10x + 8y = 66$

$2x + y = 24$

$3x + 2y = 26$

$5x + 3y = 31$

$x = \underline{\hspace{2cm}}$      $y = \underline{\hspace{2cm}}$

$x = \underline{\hspace{2cm}}$      $y = \underline{\hspace{2cm}}$

$x = \underline{\hspace{2cm}}$      $y = \underline{\hspace{2cm}}$

7)  $24x + 24y = 240$

8)  $x + 2y = 10$

9)  $36x + 54y = 450$

$12x + 10y = 106$

$8x + 3y = 41$

$12x + 15y = 135$

$x = \underline{\hspace{2cm}}$      $y = \underline{\hspace{2cm}}$

$x = \underline{\hspace{2cm}}$      $y = \underline{\hspace{2cm}}$

$x = \underline{\hspace{2cm}}$      $y = \underline{\hspace{2cm}}$

*modified equations*

10)  $5x + 7y = 58$   $15x + 21y = 174$

$3x + 2y = 26$     $15x + 10y = 130$

11)  $4x + 9y = 84$

$3x + 5y = 49$

*modified equations*

12)  $6x + 8y = 62$

$5x + 3y = 48$

*modified equations*

$x = \underline{\hspace{2cm}}$     $y = \underline{\hspace{2cm}}$

$x = \underline{\hspace{2cm}}$     $y = \underline{\hspace{2cm}}$

$x = \underline{\hspace{2cm}}$     $y = \underline{\hspace{2cm}}$

13)  $8x + 3y = 79$

$9x + 2y = 82$

14)  $2x + 2y = 8$

$5x + 5y = 30$

15)  $10x + 5y = 60$

$4x + 3y = 26$

$x = \underline{\hspace{2cm}}$     $y = \underline{\hspace{2cm}}$

$x = \underline{\hspace{2cm}}$     $y = \underline{\hspace{2cm}}$

$x = \underline{\hspace{2cm}}$     $y = \underline{\hspace{2cm}}$

16)  $18x + 24y = 222$

$12x + 10y = 106$

17)  $3x + 8y = 12$

$8x + 3y = 32$

18)  $36x + 54y = 450$

$30x + 15y = 225$

$x = \underline{\hspace{2cm}}$     $y = \underline{\hspace{2cm}}$

$x = \underline{\hspace{2cm}}$     $y = \underline{\hspace{2cm}}$

$x = \underline{\hspace{2cm}}$     $y = \underline{\hspace{2cm}}$