



## Three-Variables Linear Equations ( $ax+by+cz=d$ )

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Score: \_\_\_\_\_

1.  $1x + 3y + 3z = 35$   
 $4x - 2y - 4z = -10$   
 $4x + 4y + 3z = 55$

2.  $1x - 6y - 4z = -34$   
 $6x + 5y + 6z = 99$   
 $3x + 1y + 6z = 63$

3.  $1x - 3y - 6z = -25$   
 $3x + 1y + 6z = 47$   
 $1x + 4y + 6z = 46$

4.  $6x + 2y + 5z = 57$   
 $4x - 2y - 4z = -30$   
 $1x - 5y + 1z = -16$

5.  $3x - 5y - 1z = 7$   
 $5x - 3y - 5z = -3$   
 $5x - 1y - 5z = -1$

6.  $3x - 2y + 2z = 20$   
 $4x - 4y + 3z = 23$   
 $2x + 6y - 4z = 30$



Name: \_\_\_\_\_

Date: \_\_\_\_\_ Score: \_\_\_\_\_

1.  $1x + 3y + 3z = 35$   
 $4x - 2y - 4z = -10$   
 $4x + 4y + 3z = 55$

$$x = 5$$
$$y = 5$$
$$z = 5$$

2.  $1x - 6y - 4z = -34$   
 $6x + 5y + 6z = 99$   
 $3x + 1y + 6z = 63$

$$x = 8$$
$$y = 3$$
$$z = 6$$

3.  $1x - 3y - 6z = -25$   
 $3x + 1y + 6z = 47$   
 $1x + 4y + 6z = 46$

$$x = 8$$
$$y = 5$$
$$z = 3$$

4.  $6x + 2y + 5z = 57$   
 $4x - 2y - 4z = -30$   
 $1x - 5y + 1z = -16$

$$x = 2$$
$$y = 5$$
$$z = 7$$

5.  $3x - 5y - 1z = 7$   
 $5x - 3y - 5z = -3$   
 $5x - 1y - 5z = -1$

$$x = 6$$
$$y = 1$$
$$z = 6$$

6.  $3x - 2y + 2z = 20$   
 $4x - 4y + 3z = 23$   
 $2x + 6y - 4z = 30$

$$x = 8$$
$$y = 3$$
$$z = 1$$