

Name: .....

Date: ..... Score: .....

## Linear Equations in Two Variables Worksheet

Solve the following pairs of linear equations

1  $4x + 3y = 6$   
 $3x + 4y = 8$

2  $6u + v = 18$   
 $5u + 2v = 22$

3  $3p + 4q = 33$   
 $6p + 3q = 36$

4  $2w + z = 13$   
 $w + z = 8$

5  $2w + 3y = 12$   
 $2w + y = 6$

6  $u + 6y = 32$   
 $u + 3y = 17$

7  $c + 6d = 7$   
 $-c - 2d = -2$

8  $8e + 7f = 43$   
 $2e - 7 = -f$

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## Linear Equations in Two Variables Worksheet

### Answers

$$\begin{aligned} \boxed{1} \quad & 4x + 3y = 6 \\ & 3x + 4y = 8 \end{aligned}$$

$$x = 0, y = 2$$

$$\begin{aligned} \boxed{2} \quad & 6u + v = 18 \\ & 5u + 2v = 22 \end{aligned}$$

$$u = 2, v = 6$$

$$\begin{aligned} \boxed{3} \quad & 3p + 4q = 33 \\ & 6p + 3q = 36 \end{aligned}$$

$$p = 2, q = 6$$

$$\begin{aligned} \boxed{4} \quad & 2w + z = 13 \\ & w + z = 8 \end{aligned}$$

$$z = 3, w = 5$$

$$\begin{aligned} \boxed{5} \quad & 2w + 3y = 12 \\ & 2w + y = 6 \end{aligned}$$

$$y = 3, w = \frac{3}{2}$$

$$\begin{aligned} \boxed{6} \quad & u + 6y = 32 \\ & u + 3y = 17 \end{aligned}$$

$$u = 2, y = 5$$

$$\begin{aligned} \boxed{7} \quad & c + 6d = 7 \\ & -c - 2d = -2 \end{aligned}$$

$$c = -\frac{1}{2}, d = \frac{5}{4}$$

$$\begin{aligned} \boxed{8} \quad & 8e + 7f = 43 \\ & 2e - 7 = -f \end{aligned}$$

No Solution