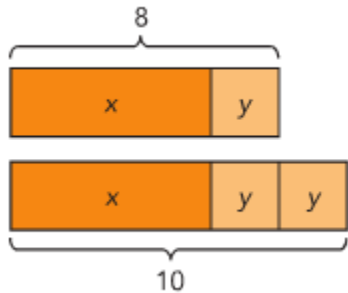


## Example 1 Solve Systems of Linear Equations with Common terms using Elimination Method

### Visualize Bar Model

$$x + y = 8 \quad \text{— Equation 1}$$

$$x + 2y = 10 \quad \text{— Equation 2}$$



X=

Y=

### Questions to Ask Self...

Do the two equations have common terms?

Which variable is easier to eliminate?

What operation do I need to complete to eliminate variable?  
(If subtracting be sure to distribute minus sign across all terms)

Did I substitute value to find unique solution?

### Algebraically

$$x + y = 8 \quad \text{— Equation 1}$$

$$x + 2y = 10 \quad \text{— Equation 2}$$

Substitute Value-

X=

Y=

## Example 2 Solve Systems of Linear Equations with Common terms using Elimination Method

### Questions to Ask Self...

Do the two equations have common terms?

Which variable is easier to eliminate?

What operation do I need to complete to eliminate variable? (If subtracting be sure to distribute minus sign across all terms)

Did I substitute value to find unique solution?

### Algebraically

$$4x + y = 9 \quad \text{— Equation 1}$$

$$3x - y = 5 \quad \text{— Equation 2}$$

Substitute Value-

X=

Y=