

## Warm Up

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Get with the group you worked with yesterday to check all your answers.

Let's solve some  
real life problems

The sum of two numbers is 36. Their difference is 6. Find the numbers.

Don't forget ...

**LET**

**STATEMENTS**

## What are our variables?

The sum of two numbers is 36. Their difference is 6. Find the numbers.

Let  $x =$  first number

Let  $y =$  second number

## What are our equations?

The sum of two numbers is 36. Their difference is 6. Find the numbers.

$$x + y = 36$$

$$x - y = 6$$

What are our variables? *amount of \$*

A theater sold 900 tickets to a play. Floor seats cost \$12 each and balcony seats \$10 each. Total receipts were \$9,780. How many of each type of ticket were sold?

*Tells us our variables*

Let  $x =$  # of floor seats

Let  $y =$  # of balcony seats

What are our equations?

A theater sold 900 tickets to a play. Floor seats cost \$12 each and balcony seats \$10 each. Total receipts were \$9,780. How many of each type of ticket were sold?

$$x + y = 900$$

$$12x + 10y = 9780$$

# Homework

Finish classwork