

**DO NOW**

The sum of two numbers is 26. The larger number is one more than 4 times the smaller number. Find both numbers.

Let  $x =$  smaller #  
 $y =$  larger #

$$x + y = 26$$

$$y = 4x + 1$$

$$x + y = 26$$

$$x + 4x + 1 = 26$$

$$5x + 1 = 26$$

$$5x = 25$$

$$x = 5$$

$$x + y = 26$$

$$5 + y = 26$$

$$y = 21$$

Small is 5  
 Large is 21

Mar 11-7:19 AM

**HW ANSWERS**

5. Let  $x =$  1st #

$y =$  2nd #

$$x + y = 36$$

$$x - y = 24$$

$$1\text{st \#} = 30$$

$$2\text{nd \#} = 6$$

6. Let  $x =$  Smaller #

$y =$  Larger #

$$x + y = 104$$

$$y = 2x - 1$$

$$\text{Smaller \#} = 35$$

$$\text{Larger \#} = 69$$

7. Let  $x =$  cost of bats

$y =$  cost of baseballs

$$4x + 9y = 76.50$$

$$3x + 12y = 81$$

$$\text{Bats} = \$9$$

$$\text{Baseballs} = \$4.50$$

8. Let  $x =$  cost of a pizza

$y =$  cost of a sandwich

$$3x + 4y = 68$$

$$3x + 7y = 92$$

$$\text{Pizza} = \$12$$

$$\text{Sandwich} = \$8$$

Dec 1-10:28 AM