Do Now

Describe and correct the error in solving for one of the variables in the linear system 4x + 2y = 6

$$3x + y = 9$$

Step 1
$$3x + y = 9$$

$$y = 9 - 3x$$

Step 3
$$3x + y = 9$$

$$3x + 6 = 9$$

$$3x = 3$$

Step 2
$$4x + 2(9 - 3x) = 6$$

$$4x + 18 - 6x = 6$$

$$-2x = -12$$

$$x = 1$$

$$\chi Q + u = 9$$

Jan 24-1:01 PM

Classwork Answers

3. Let
$$x = 1st$$
 number

$$x + y = 36$$

$$x - y = 24$$

30 and 6 are the two numbers

4. Let x = smaller number

$$x + y = 104$$

$$y = 2x - 1$$

35 is the smaller number and 69 is the larger numbers

Homework Answers

1. Let
$$x = 1$$
st number

$$x + y = 30$$

$$x - y = 12$$

2. Let
$$x = 1$$
st number

$$y = 2nd number$$

$$x + y = 24$$

$$x - y = 2$$

21 and 9 are the two numbers 13 and 11 are the two numbers

3. Let
$$x = 1$$
st number

$$y = 2nd number$$

$$x - y = 9$$

$$x + 2y = 27$$

15 and 6 are the two numbers

Dec 18-6:53 AM

The owner of a men's clothing store bought six belts and eight hats for \$140. A week later, at the same prices, he bought nine belts and six hats for \$132. Find the price of a belt and the price of a hat.

Let
$$X = \# hat$$

$$y = \# belt$$

$$3(8x + by = 140)$$

$$2(bx + 9y = 132)$$

$$24x + 189 = 420$$

$$-12x - 189 = -264$$

$$12x = 156$$

$$12x = 156$$

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$$12x = 136$$

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$$136 = 1$$

Mar 11-7:13 AM

There were 100 tickets sold to last night's concert. Some of the tickets were sold to students at \$2 and the rest were sold to adults at \$2.50. The booster club collected \$220 in ticket sales. How many of each type of ticket were sold?

Mar 11-7:14 AM