DO NOW - Sit with your partner from yesterday (BOTH PARTNERS NEED TO BE ABLE TO SEE THE SMARTBOARD)

A hardware store owner sold 6 bolts and 7 washers for $1.22. The same day, he sold 3 bolts and 10 washers of the same size for $1.13. Find the cost of 1 bolt and 1 washer

$-3[6x + 7y = 1.22]$

$6[3x + 10y = 1.13]$

$-18x - 21y = -3.66$

$18x + 60y = 6.78$

$\frac{39y}{39} = \frac{3.12}{39}$

$y = .08$

let x = bolts

y = washers

$6x + 7y = 1.22$

$6x + 7(.08) = 1.22$

$6x + .56 = 1.22$

$-.56$

$\frac{6x}{6} = \frac{0.66}{6}$

$x = .11$

Washers - .08

Bolts - .11

Mar 11-7:19 AM

HW Answers

1. Let t = trumpet

c = clarinets

t + c = 27

149t + 99c = 3223

16 clarinets

2. Let p = pencil

f = folder

8p + 3f = 10.39

5p + 4f = 10.51

Folder $1.89

3. Let h = hardcover cost

p = paperback cost

3h + 7p = 29.50

2h + 5p = 20.50

Hardcover $4

4. Let x = surfboards

y = paddleboards

x + y = 44

45x + 60y = 2265

19 paddleboards

5. Let p = popcorn

c = candy

28p + 40c = 282

17p + 20c = 160.50

$6.50 popcorn

6. Let x = pizza

y = pretzel

9x + 5y =33.25

4x + 6y = 19.50

$3 pizza

$1.25 pretzels

7. Let x = student tickets y = general admission

x + y = 210

3x + 7.50y = 1296

148 general admission

Jan 26-6:53 AM

What you need to know for the test:

- Solving a system of equations graphically
- Solving a system of equations algebraically:
  - using elimination or substitution
- Solving word problems using a system of equations
  - algebraically
- Determining if a given point is a solution for a system of equations (verifying solutions)
- Knowing the three types of solutions to a system
  - One solution
  - Infinite solutions
  - No solution

Dec 15-1:41 PM