Solve each system of equations using substitution. Give answers as ordered pairs.

$$y = -\frac{4}{3}x + 7$$

$$8x + 6y = 42$$

$$7a - 3b = 22$$

$$x + 6y = 42$$
. $8a + b = 34$

Solve this system of equations using Elimination. Give answers as ordered pairs.

$$4m - 3n = -23$$

$$6m + 3n = 3$$

$$-4c + 5d = 30$$

$$-4c + 7d = 42$$

5. You have a pile of 59 coins. In the pile there is only nickels and pennies. When you total up the coins you have \$1.27. Write and solve a system of equations to find out how many pennies and nickels you have.

Thursday, February 11, 2016 Algebra 1 Bellwork



Solve each system of equations using substitution. Give answers as ordered pairs.

$$y = -\frac{4}{3}x + 7$$
 Many for Solution S

$$8x + 6y = 42$$

$$8x + 6(-\frac{4}{3}x + 7) = 42$$

$$8x - 8x + 42 = 42$$

2.

$$7a - 3b = 22$$

$$8a + b = 34 \rightarrow b = 34 - 8a$$

$$7a - 3b = 22$$

$$8a + b = 34 \implies b = 34 - 8a$$

$$7a - 3(34 - 8a) = 22$$

$$7a - 102 + 24a = 22$$

$$\frac{31a = 124}{31}$$

Solve this system of equations using Elimination. Give answers as ordered pairs.

$$4m-3n=-23$$

$$6m + 3n = 3$$

$$10m = -20$$

 $m = -2$

$$-4c + 5d = 30$$

$$-4c + 7d = 42$$

$$-2d = -12$$

$$b = 34 - 8(4)$$

$$= 34 - 32 = 2$$

5. You have a pile of 59 coins. In the pile there is only nickels and pennies. When you total up the coins you have \$1.27. Write and solve a system of equations to find out how many pennies and nickels you

n=#nickels

$$05(n+p=59)$$

$$.05n + .01p = 1.27 \rightarrow$$

.05(n+p=59) - .05n+.05p=2.95 $05n + .01p = 1.27 \rightarrow -.05n + .01p = 1.27$ 142 pennies
17 nickels p = 42