Warm Up

12/5/17

1. What value of **y** satisfies the following system of equations? y = -3x - 3*Use elimination

$$y = -3x - 3$$

 $-2x + y = 2$

*Use elimination or graphing methods

y=-3(-1)-3 y=3-3y=0

2. Solve:
$$28 - 3y = 12$$

 $x = 4y + 1$

(-1,-4) (9,2)

$$2(4y+1)-3y=12 \quad \chi=4(2)+1$$

$$8y+2-3y=12 \quad \chi=8+1$$

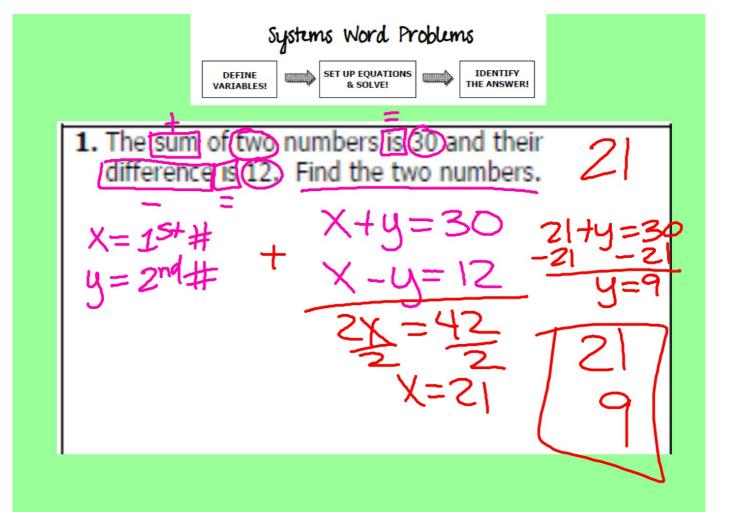
$$5y+2=12 \quad \chi=9$$

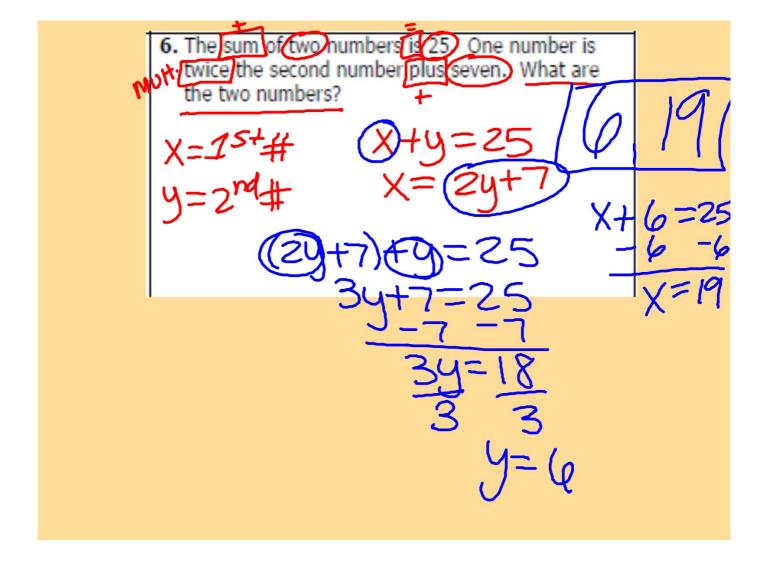
$$5y=10 \quad (9,2)$$

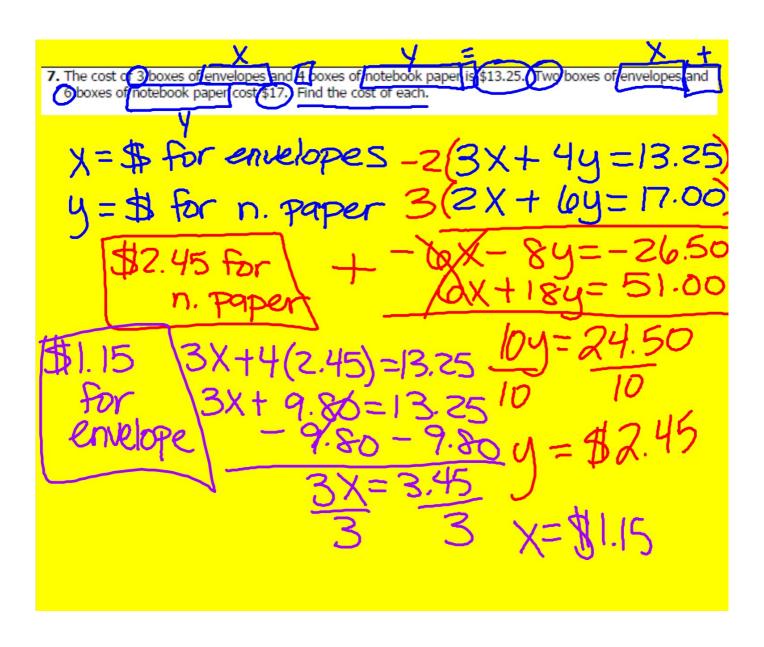
$$y=2$$

3. Write the equation of the line perpendicular to y = -2x + 5 that passes through (-4,6)

SYSTEMS APPLICATION







10. At a sale on winter clothing, Cody bought two pairs of gloves and four hats for \$43.00. Tori bought two pairs of gloves and two hats for \$30.00. Find the cost of each.

12. The Town Recreation Department ordered a total of 100 baseballs and bats for the summer baseball camp. Baseballs cost \$4.50 each and bats cost \$20 each. The total purchase was \$822. How many of each item was ordered?

$$X = baseballS$$

 $Y = batS$

$$X + y = 100$$

4.50 $X + 20y = 822$

14. One nights theater sold 548 hovie tickets. An adult's ticket costs \$6.50 and a child's ticket cost \$3.50. X = adolf + hickets - 6.59(X + y = 548) Y = child + hickets - 6.50X + 3.50y = 2881 227 child + 6.50X - 6.50y = -3502 4 + 6.50X + 3.50y = 2881 4 + 6.50X + 3.50y = 2881

EXIT TICKET

10/18/18

1. A group of adults and teens attend a football game. The total number of people in the group was 15. Teen tickets cost \$32 and adult tickets cost \$54 and it cost the whole group \$612 to attend the game. How many teens and adults went to the game?