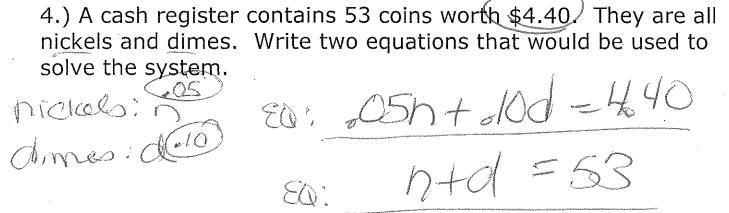
Name Key
<u>Unit 5 Review</u>
1.) J. P. is thinking of two numbers. The sum of the numbers is 163, and their difference is 33. Define the variables and write two equations that would be used to solve the system.
VIZ anna H 5
eg. Q16 163
eq. (a.b.= 33)
2.) The school's photographer took pictures of couples at this year's prom. She charged \$3.25 for wallet-size pictures and \$10.50 for portrait-size pictures. Crystal and Dan bought a total of 10 pictures for \$61.50. Define the variables and write two equations that would be used to solve the system.
3.25 w + 10,50 p = 61.50 w + $p = 10$
3.) The perimeter of a rectangle is 78 cm. The length is 7 more than the width. Write two equations that would be used to
solve the system. $ \begin{array}{cccccccccccccccccccccccccccccccccc$

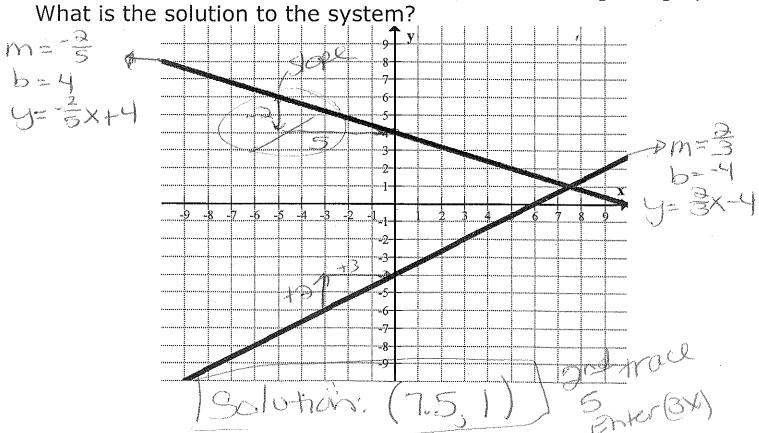
Q genzeh



5.) McKinney Boyd Theatre sold 210 tickets and collected a total of \$1530 in ticket sales for the Sunday matinee of Peter Pan. Admission was \$11.00 for adults and \$5.00 for children. Write two equations that would be used to solve the system.



6.) Write a system of equations that represents the given graph.



7.) How many solutions does the following system have? Justify your answer.

$$y = -x + 3$$

$$2x + 2y = 8$$

Equations have same slope but different y-int so they are paralled

8.) Some values for two linear equations are shown in the tables below:

.		J. S. Samuel and M. S. Samuel and M. S. Samuel and S. Samu	is a small (
	UZX	士多	
***************************************	X	У	
	2	5	
\bigcirc /	4	7	
94	6	9	7+2
	8	11	7+2
	10	13	7+2

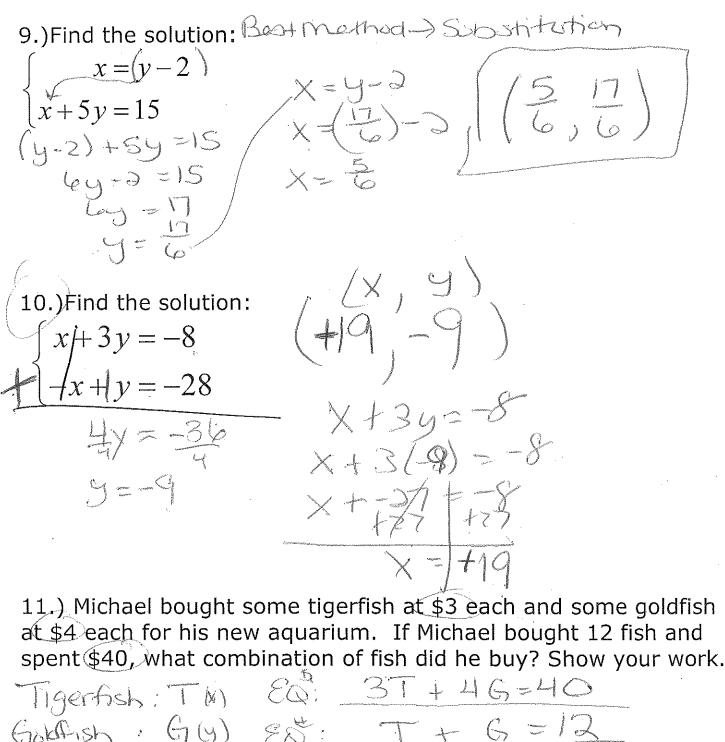
	21/47/	Almand	
		X+3	
	X	en alle en	
	8	11	
- Dundan	10	13	
	0	3	
	-2	1	

What is the solution to the system of equations represented by these tables? Write you answer as an order pair and justify your answer.

Solution to a system is when both x & both y-values exe me same

Infinitely many Solutions

This has many points they share -) Same equation



spent \$40, what combination of fish did he buy? Show your work.

Tigerfish: TM & & 3T + 4G = 40

Goldish: G(y) & & T + G = 12

Elimination

3T + 4G = 40

4G = $\frac{3}{4}$ T + 10

(4,8)

T + (4) = 12

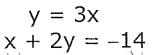
T + 6 = 12

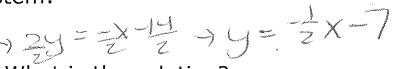
T + 6 = 12

G = $\frac{3}{4}$ T + 10

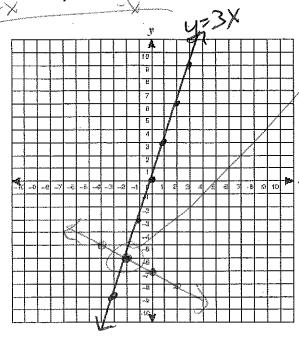
(4,8)

12.) Graph the system:





What is the solution?

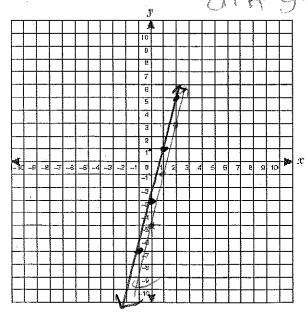


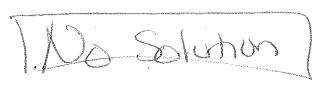
13.) Graph the system and write the solution.

$$8x - 2y = 10 \rightarrow y = 4 \times -5$$

$$y = 4x - 3$$







Warm UP G=MX+6
14.) Tight Tunes charges their customers \$2 per song
downloaded. Dynamite Downloads charges a \$10 registration fee
to become a member and \$1.50 per song downloaded. Graph the system of equations.
Graph the system/of equations.
When is Tight Tunes a better deal?
or less than 20 Sonpo
When is Dynamite Downloads a better deal?
or more than 20 songes
What does the point (20, 40) represent in this situation? Use the
words cost and number of downloads in your answer.
This represents when both TT & DD
COST \$40 for 20 songp.

15.) Describe the graphs of the following systems of equations:

- 1) One unique solution: they will intersect at one point (solution)
- 2) No solution: the graphs will be parallel
- 3) Infinite solutions: the graphs will coincide (one on top of the other)