each coin. Manuel used a system of linear equations and graphed them in the coordinate plane. Based on

the graph how many quarters are in the bowl?

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- 7. Chelsea can choose from 2 plans for streaming videos to her television. Plan A costs \$19.95 initially and has a charge of \$1.00 per video. Plan B has no initial charge and has a charge of \$3.50 per video. The equation for each plan is graphed in the coordinate plane. Based on the graph, what is the minimum number of videos Chelsea should stream so that the cost of Plan A is less than Plan B?
- 8 videos 35 25 Number of Videos
- Josh needs to solve the system of equations below. He decides to use the elimination method to cancel out the x terms in order to first solve for y.

$$\int 4x + 5y = 7$$

$$2x - 3y = 9$$
 Josh uses the following steps:

Step 1:
$$4x + 5y = 7$$

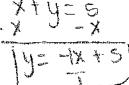
$$-2(2x)-3y=9$$

Step 2:
$$4x + 5y = 7$$

$$-4x - 3y = 9$$

Step 4:
$$y = 8$$

Did Josh use the correct steps to solve for y? 9. If Jess wants to graph the solution to the system of equations below, which of the following graphs would represent the solution?



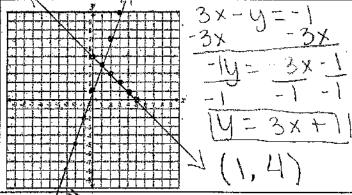
A. Yes, Josh correctly solved for y.

10 20 30 40 60 80 70 80 90 100

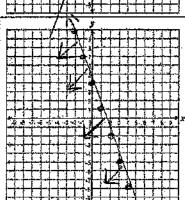
- B. No, Josh should have multiplied 2x by 2 instead of by -2. (C.) No, Josh should have multiplied the entire second equation by -2.
- D. No, Josh should have multiplied the entire second

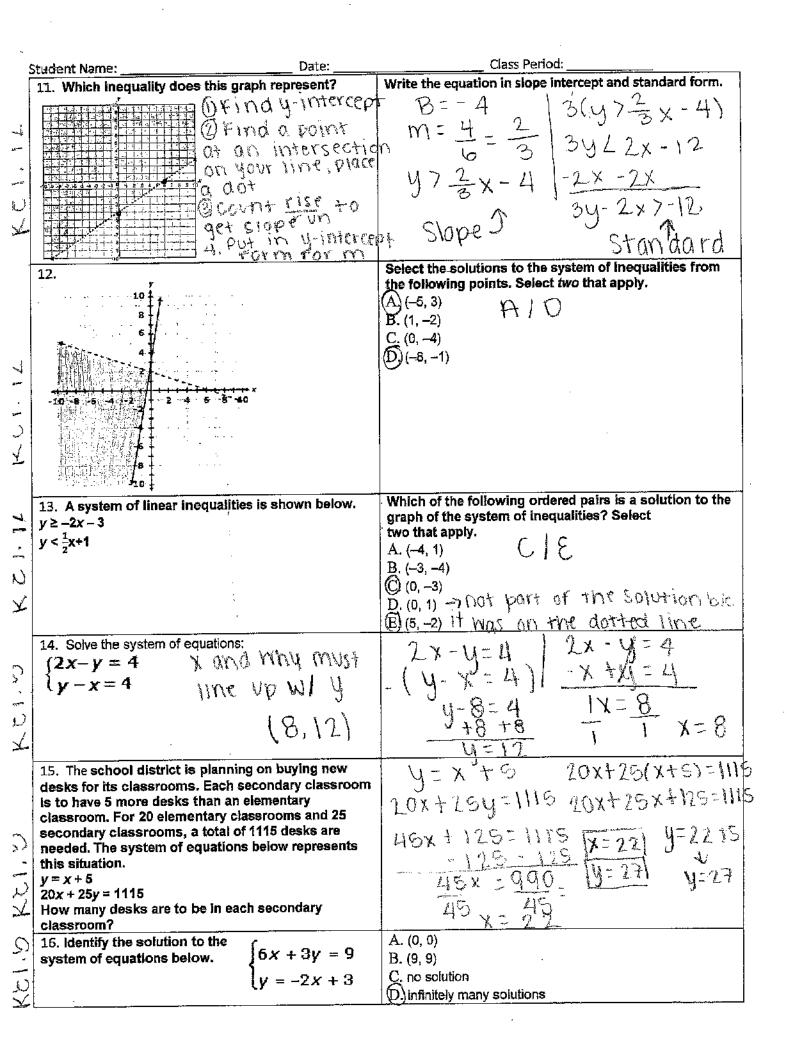
equation by -4.
$$4x + 5y = 7$$

 $-2(2x - 3y = 9)$ $-4x + 6y = -18$



10. What is the graph of the linear inequality $y \le -3x + 4$?





17. Leslie determined that the system of equations
below has infinitely many solutions. Is she correct?
$\int_{X} = 4v - 4$

$$\begin{cases} x = 4y - 4 \\ 2x - 6y = -24 \end{cases}$$

$$2(4y-4)-8y=-24$$

$$8xy-8-8y=-24$$

$$-8=-24$$

No solution

18. Solve the system of equations below.

$$\begin{cases} 2x - y = 3 \\ x + 2y = -6 \end{cases}$$

$$(0,-3)$$

Additional Notes and Work Space:

16. bx + 34=9 y=-2x+3

$$6x+3(-2x+3)=0$$

 $6x-6x+9=0$ solutions
 $0=0$

$$6x+3y=9$$

$$-3(2x+y=9)$$

$$6x+3y=9$$

$$-6x+3y=9$$

$$-6x-5y=A$$

$$0=0$$
Solutions