Part A: Three friends go to a store to rent games and moves. Calvin Rent 3 movies and 2 video games and spent a total of $25. Samantha rents 2 movies and 1 video game and spends a total of $14.75.

If the rental fee for each game is the same and the rental fee for each movie is the same, determine how much their friend, Keith, will spend a the rental store to rent 1 movie and 2 video games. Show your work and explain your answer.

Part B: A fourth friend, Beth, rents her movies and video games from a different store. At this store, the rental fee for a movie is the same as the rental fee for a video game.

The total cost of renting 2 movies and 3 video games is the same at both stores. Determine the rental fee that Beth's store charges for each movie or video game. Explain your answer.

Rubric

PART A

	Student response includes the 3 following elements. • Correctly models/setsup the problem • Correctly determines the costs of renting movies and video games • Determines how much Keith will spend based on the cost of video games and cost of renting movies with a logical progression of explanation or work Sample Student Response: In order to solve for the rental costs of each movie and video game, I can create a system of equations to model the situation. Let m represent the cost for each movie. Let g represent the cost for each video game. $3m + 2g = 25.00$ $2m + 1g = 14.75$ I can eliminate the variable, g, by multiplying the second equation by 2 and subtracting it from the first equation. I will be able to solve for m. $3m + 2g = 25.00$ $2(2m + 1g = 14.75)$ $3m + 2g = 25.00$ $-(4m + 2g = 29.50)$ $\overline{-m = -4.50}$ $m = 4.50$ It costs \$4.50 to rent one movie. I can solve for the variable, g, by substituting 4.50 for m into one of the equations. $3m + 2g = 25.00$ $3(4.50) + 2g = 25.00$ $13.50 + 2g = 25.00$ $2g = 11.50$ $g = 5.75$ It costs 5.75 to rent one video game.
	If Keith wants to rent one movie and two video games, it will cost him $4.50 + 2(5.75) = 16.00$. So, Keith will spend \$16.00 at the rental store.
2	Student response includes 2 of the above elements.
1	Student response includes 1 of the above elements.
0	The response is incorrect or irrelevant.

(Note: the left-hand cell spanning the top section is labeled **3**)

Part B	
Score	**Description**
2	Student response includes each of the following 2 elements: • Correctly determines the cost of renting 2 movies and 3 video games based on the answer to Part A. • Correctly determines the rental cost of movies and video games at Beth's store. Sample Student Response: Renting 2 movies and 3 video games from the first store is equal to renting the 2 movies and 3 video games from the second store. Let p be the cost for renting a movie or a video game at the second store. $2m + 3g = 2p + 3p$ $2(4.50) + 3(5.75) = 5p$ $26.25 = 5p$ $p = 5.25$ So, Beth's store charges $5.25 for each movie or video game rental.
1	Student response includes 1 of the above elements.
0	The response is incorrect or irrelevant.

Points	Genesis Conversion	Points	Genesis Conversion	Points	Genesis Conversion
0	55	0	55	0	55
1	59	1	69	1	69
2	69	2	79	2	89
3	79	3	89	3	100
4	89	4	100		
5	100				