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.

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	PART A
	Chudent menses includes the T fill of the transfer
	<ul> <li>Student response includes the 3 following elements.</li> <li>Correctly models/setsup the problem</li> </ul>
	<ul> <li>Correctly determines the costs of renting movies and video games</li> </ul>
	<ul> <li>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</li> </ul>
	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 <i>m</i> represent the cost for each movie. Let <i>g</i> represent the cost for each video game.
	3m + 2g = 25.00 2m + 1g = 14.75
3	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)
	$\frac{3m + 2g = 25.00}{-(4m + 2g = 29.50)}$ $\frac{-(4m + 2g = 29.50)}{-m = -4.50}$ 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.

Part B					
Score	Description				
	Student response includes each of the following 2 elements:				
	<ul> <li>Correctly determines the cost of renting 2 movies and 3 video games based on the answer to Part A.</li> </ul>				
	<ul> <li>Correctly determines the rental cost of movies and video games at Beth's store.</li> </ul>				
	Sample Student Response:				
2	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				