

NAME: \_\_\_\_\_

1. 060806ia, P.I. A.A.7  
Jack bought 3 slices of cheese pizza and 4 slices of mushroom pizza for a total cost of \$12.50. Grace bought 3 slices of cheese pizza and 2 slices of mushroom pizza for a total cost of \$8.50. What is the cost of one slice of mushroom pizza?  
[A] \$1.50                      [B] \$3.00  
[C] \$3.50                      [D] \$2.00
2. 080233a, P.I. A.A.7  
Tanisha and Rachel had lunch at the mall. Tanisha ordered three slices of pizza and two colas. Rachel ordered two slices of pizza and three colas. Tanisha's bill was \$6.00, and Rachel's bill was \$5.25. What was the price of one slice of pizza? What was the price of one cola?
3. 010232a, P.I. A.A.7  
When Tony received his weekly allowance, he decided to purchase candy bars for all his friends. Tony bought three Milk Chocolate bars and four Creamy Nougat bars, which cost a total of \$4.25 without tax. Then he realized this candy would not be enough for all his friends, so he returned to the store and bought an additional six Milk Chocolate bars and four Creamy Nougat bars, which cost a total of \$6.50 without tax. How much did *each* type of candy bar cost?
4. 010332a, P.I. A.A.7  
Alexandra purchases two doughnuts and three cookies at a doughnut shop and is charged \$3.30. Briana purchases five doughnuts and two cookies at the same shop for \$4.95. All the doughnuts have the same price and all the cookies have the same price. Find the cost of one doughnut and find the cost of one cookie.
5. 060133a, P.I. A.A.7  
Ramón rented a sprayer and a generator. On his first job, he used each piece of equipment for 6 hours at a total cost of \$90. On his second job, he used the sprayer for 4 hours and the generator for 8 hours at a total cost of \$100. What was the hourly cost of *each* piece of equipment?
6. 080837ia, P.I. A.A.7  
The cost of 3 markers and 2 pencils is \$1.80. The cost of 4 markers and 6 pencils is \$2.90. What is the cost of *each* item? Include appropriate units in your answer.
7. 060812ia, P.I. A.A.7  
Pam is playing with red and black marbles. The number of red marbles she has is three more than twice the number of black marbles she has. She has 42 marbles in all. How many red marbles does Pam have?  
[A] 29      [B] 33      [C] 13      [D] 15
8. 010104a, P.I. A.A.7  
Three times as many robins as cardinals visited a bird feeder. If a total of 20 robins and cardinals visited the feeder, how many were robins?  
[A] 5      [B] 20      [C] 15      [D] 10
9. 080606a, P.I. A.A.7  
Sal keeps quarters, nickels, and dimes in his change jar. He has a total of 52 coins. He has three more quarters than dimes and five fewer nickels than dimes. How many dimes does Sal have?  
[A] 13      [B] 21      [C] 20      [D] 18
10. 089916a, P.I. A.A.7  
At a concert, \$720 was collected for hot dogs, hamburgers, and soft drinks. All three items sold for \$1.00 each. Twice as many hot dogs were sold as hamburgers. Three times as many soft drinks were sold as hamburgers. The number of soft drinks sold was  
[A] 240      [B] 120      [C] 360      [D] 480

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11. 010033a, P.I. A.A.7  
A group of 148 people is spending five days at a summer camp. The cook ordered 12 pounds of food for each adult and 9 pounds of food for each child. A total of 1,410 pounds of food was ordered.  
*a* Write an equation or a system of equations that describes the above situation and define your variables.  
*b* Using your work from part *a*, find:  
(1) the total number of adults in the group  
(2) the total number of children in the group
12. 010327a, P.I. A.A.7  
Arielle has a collection of grasshoppers and crickets. She has 561 insects in all. The number of grasshoppers is twice the number of crickets. Find the number of *each* type of insect that she has.
13. 080811ia, P.I. A.A.7  
Sam and Odel have been selling frozen pizzas for a class fundraiser. Sam has sold half as many pizzas as Odel. Together they have sold a total of 126 pizzas. How many pizzas did Sam sell?  
[A] 84      [B] 42      [C] 21      [D] 63
14. 010022a, P.I. A.A.7  
Mary and Amy had a total of 20 yards of material from which to make costumes. Mary used three times more material to make her costume than Amy used, and 2 yards of material was not used. How many yards of materials did Amy use for her costume?
15. 060123a, P.I. A.A.7  
Ben had twice as many nickels as dimes. Altogether, Ben had \$4.20. How many nickels *and* how many dimes did Ben have?
16. 010436a, P.I. A.A.7  
Using only 32-cent and 20-cent stamps, Charlie put \$3.36 postage on a package he sent to his sister. He used twice as many 32-cent stamps as 20-cent stamps. Determine how many of *each* type of stamp he used.
17. 060031a, P.I. A.A.7  
The owner of a movie theater was counting the money from 1 day's ticket sales. He knew that a total of 150 tickets were sold. Adult tickets cost \$7.50 each and children's tickets cost \$4.75 each. If the total receipts for the day were \$891.25, how many of *each* kind of ticket were sold?
18. 010134a, P.I. A.A.7  
There were 100 more balcony tickets than main-floor tickets sold for a concert. The balcony tickets sold for \$4 and the main-floor tickets sold for \$12. The total amount of sales for both types of tickets was \$3,056.  
*a* Write an equation or a system of equations that describes the given situation. Define the variables.  
*b* Find the number of balcony tickets that were sold.
19. 080132a, P.I. A.A.7  
The ninth graders at a high school are raising money by selling T-shirts and baseball caps. The number of T-shirts sold was three times the number of caps. The profit they received for each T-shirt sold was \$5.00, and the profit on each cap was \$2.50. If the students made a total profit of \$210, how many T-shirts *and* how many caps were sold?
20. 010539a, P.I. A.A.7  
The tickets for a dance recital cost \$5.00 for adults and \$2.00 for children. If the total number of tickets sold was 295 and the total amount collected was \$1,220, how many adult tickets were sold? [Only an algebraic solution can receive full credit.]
21. 060531a, P.I. A.A.7  
A ribbon 56 centimeters long is cut into two pieces. One of the pieces is three times longer than the other. Find the lengths, in centimeters, of both pieces of ribbon.
22. 060638a, P.I. A.A.7  
Sharu has \$2.35 in nickels and dimes. If he has a total of thirty-two coins, how many of *each* coin does he have?

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23. 080412a, P.I. A.A.7  
The ratio of Tariq's telephone bill to Pria's telephone bill was 7:5. Tariq's bill was \$14 more than Pria's bill. What was Tariq's bill?  
[A] \$28 [B] \$21 [C] \$35 [D] \$49
24. 060004a, P.I. A.A.7  
Two numbers are in the ratio 2:5. If 6 is subtracted from their sum, the result is 50. What is the larger number?  
[A] 55 [B] 40 [C] 35 [D] 45
25. 060912ia, P.I. A.A.7  
The sum of two numbers is 47, and their difference is 15. What is the larger number?  
[A] 36 [B] 16 [C] 31 [D] 32
26. 060201a, P.I. A.A.7  
Jamie is 5 years older than her sister Amy. If the sum of their ages is 19, how old is Jamie?  
[A] 14 [B] 5 [C] 12 [D] 7
27. spring9828a, P.I. A.A.7  
A total of 800 votes were cast in an election. The table below represents the votes that were received by the candidates. Candidate *D* got at least 30 votes more than Candidate *E*. What is the least number of votes that Candidate *D* could have received?

Candidate	Number of Votes
<i>A</i>	213
<i>B</i>	328
<i>C</i>	39
<i>D</i>	$x$
<i>E</i>	$y$

28. 060917ia, P.I. A.A.7  
At Genesee High School, the sophomore class has 60 more students than the freshman class. The junior class has 50 fewer students than twice the students in the freshman class. The senior class is three times as large as the freshman class. If there are a total of 1,424 students at Genesee High School, how many students are in the freshman class?  
[A] 236 [B] 202 [C] 205 [D] 235
29. 060326a, P.I. A.A.7  
Seth has one less than twice the number of compact discs (CDs) that Jason has. Raoul has 53 more CDs than Jason has. If Seth gives Jason 25 CDs, Seth and Jason will have the same number of CDs. How many CDs did *each* of the three boys have to begin with?
30. 010228a, P.I. A.A.7  
A total of 600 tickets were sold for a concert. Twice as many tickets were sold in advance than were sold at the door. If the tickets sold in advance cost \$25 each and the tickets sold at the door cost \$32 each, how much money was collected for the concert?
31. 010228b, P.I. A.A.7  
At the local video rental store, José rents two movies and three games for a total of \$15.50. At the same time, Meg rents three movies and one game for a total of \$12.05. How much money is needed to rent a combination of one game and one movie?
32. 060123b, P.I. A.A.7  
The cost of a long-distance telephone call is determined by a flat fee for the first 5 minutes and a fixed amount for each additional minute. If a 15-minute telephone call costs \$3.25 and a 23-minute call costs \$5.17, find the cost of a 30-minute call.

[1] D \_\_\_\_\_

[4] \$1.50 for one slice of pizza and \$0.75 for one cola, and appropriate work is shown, such as  $3x + 2y = \$6$  and  $2x + 3y = \$5.25$ .

[3] Appropriate work is shown, but one computational error is made.

or [3] Appropriate work is shown, but only the price of one slice of pizza or the price of one cola is found correctly.

[2] Appropriate work is shown, but more than one computational error is made.

or [2] An incorrect system of equations of equal difficulty is solved appropriately to calculate the cost of one slice of pizza and one cola.

[1] \$1.50 for one slice of pizza and \$0.75 for one cola, but no work is shown.

[0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously

[2] incorrect procedure.

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[4] Milk Chocolate bar = \$0.75 and Creamy Nougat bar = \$0.50, and appropriate work is shown, such as equations, a trial-and-error method with at least two trials and appropriate checks, or an algebraic or graphic solution.

[3] Appropriate work is shown, but one computational error is made.

[2] The cost of one candy bar is determined correctly with appropriate work shown, but no attempt is made to find the cost of the other candy bar.

or [2] Appropriate work is shown, but more than one computational error is made.

[1] Appropriate work is shown, but no answer is found.

or [1] Milk Chocolate bar = \$0.75 and Creamy Nougat bar = \$0.50, but no work is shown.

[0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously

[3] incorrect procedure.

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[4] One doughnut is \$0.75 and one cookie is \$0.60, and appropriate work is shown, such as a system of equations, trial and error with at least three trials and appropriate checks, or a table.

[3] Appropriate work is shown, but one computational error is made.

or [3] Appropriate work is shown, but only one correct answer is found, or two correct answers are found, but they are not identified clearly as doughnuts or cookies, or the doughnuts and cookies are labeled incorrectly.

[2] Appropriate work is shown, but more than one computational error is made.

or [2] Two equations are written, one correct and one incorrect, but two appropriate answers are found.

or [2] The trial-and-error method is used to find a correct solution, but only two trials and appropriate checks are shown.

[1] Two correct equations are written, but no further correct work is shown.

or [1] One doughnut is \$0.75 and one cookie is \$0.60, but no work or only one trial with an appropriate check is shown.

[0] One correct equation is shown, and no answer or only one appropriate answer is found.

or [0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an

[4] obviously incorrect procedure.

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- [4] \$5 for the sprayer and \$10 for the generator, and appropriate work is shown, such as  $x$ =hourly cost of sprayer and  $y$ =hourly cost of generator, and an appropriate system of equations is solved or a trial-and-error method is used, showing at least two trials with appropriate checks.
- [3] Both correct equations are shown or an appropriate chart or trial-and-error method is used, but one computational error is made.
- or [3] Both correct equations are shown, and they are solved for one value, but no further work is shown.
- [2] Only one of the two equations is correct, but they are solved appropriately for both values.
- or [2] Both correct equations are shown, but more than one computational error is made.
- or [2] \$5 for the sprayer and \$10 for the generator, but only one trial is shown with appropriate checks.
- [1] Both equations are incorrect, but they are solved appropriately for both values.
- or [1] Both correct equations are shown, but they are not solved.
- or [1] \$5 for the sprayer and \$10 for the generator, but no work is shown.
- [0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously incorrect procedure.
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- [4] A marker = \$.50 or 50¢ and a pencil = \$.15 or 15¢, and appropriate work is shown, such as solving a system of equations algebraically or by trial and error with at least three trials and appropriate checks.
- [3] Appropriate work is shown, but one computational error is made.
- [3] Appropriate work is shown, but only the cost of a marker or a pencil is found, but appropriate units are written.
- or [3] Appropriate work is shown, but the correct answers are not labeled or are labeled incorrectly, but appropriate units are written.
- or [3] Appropriate work is shown, and the answers are labeled correctly, but the units are written incorrectly, such as a marker = .50¢.
- [2] Appropriate work is shown, but two or more computational errors are made.
- or [2] Appropriate work is shown, but one conceptual error is made.
- or [2] Appropriate work is shown, but the answers are not labeled or are labeled incorrectly, and the units are not written or are written incorrectly.
- or [2] An incorrect system of equations is written, but two appropriate answers are found and labeled, and appropriate units are written.
- or [2] The trial-and-error method is used to find the correct answers, but only two trials and appropriate checks are shown.
- or [2] The trial-and-error method is attempted and at least six systematic trials and appropriate checks are shown, but no answers are found.
- [1] Appropriate work is shown, but one conceptual error and one computational error are made.
- or [1] A correct system of equations is written, but no further correct work is shown.
- or [1] The trial-and-error method is used to find the correct answers, but only one trial with an appropriate check is shown.
- or [1] A marker = \$.50 or 50¢ and a pencil = \$.15 or 15¢, but no work is shown.
- [6] [0] One correct equation is written, but no
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further correct work is shown.  
or [0] Either the correct price of a marker or a pencil is stated, but no work is shown.  
or [0] The correct prices of the marker and pencil are found, but no work is shown, and the answers are not labeled or are labeled incorrectly.  
or [0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously incorrect procedure.

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[7] A

[8] C

[9] D

[10] C

a [2] An appropriate equation or system is shown, such as  $x + y = 148$  and  $12x + 9y = 1410$  or one equation such as  $12(148 - x) + 9x = 1410$  with variables identified.

[1] The student shows appropriate equation(s), but variables are not defined.

or [1] One mistake in equation(s) is made, or only one equation with two variables is shown, but variables are defined.

b(1) [1] 26 and an appropriate method is shown, such as solving the equation or making a table.

or [1] An appropriate answer is found based on incorrect equation(s) obtained in part a.

b(2) [1] 122 and an appropriate method is shown, such as  $148 - 26$ .

or [1] An appropriate answer is found based on incorrect equation(s) obtained in part a.

b (1) and b (2) [1] 26 and 122 and no work is shown.

a and b [0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an

[11] obviously incorrect procedure.

[3] 374 grasshoppers and 187 crickets, and appropriate work is shown.

[2] An appropriate equation is solved or appropriate work is shown, but only one correct answer is found, or two correct answers are found but they are not identified clearly as grasshoppers or crickets, or the grasshoppers and crickets are labeled incorrectly.

or [2] Appropriate work is shown, but one computational error is made.

[1] Appropriate work is shown, but more than one computational error is made.

or [1] An incorrect equation of equal difficulty is solved appropriately.

or [1] 374 grasshoppers and 187 crickets, but no work is shown.

[0] 374 and 187, but no work is shown, and the answers are not identified clearly as grasshoppers or crickets.

or [0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an

[12] obviously incorrect procedure.

[13] B

[2] 4.5 and an appropriate method is shown, such as the equation  $3x + x + 2 = 20$  or some trial and error or arithmetic process.

[1] An appropriate method is shown, but the correct answer is not found.

or [1] 4.5 and no work is shown.

or [1] The student solves the equation  $x + 3x - 2 = 20$  and answers 5.5.

[0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously

[14] incorrect procedure.

- [2] 42 nickels and 21 dimes, and appropriate work is shown, such as  $0.1x + (0.05)2x = 4.20$  or a guess and a check with a minimum of two trials and appropriate checks or another appropriate method.
- [1] 42 nickels or 21 dimes, but appropriate work is shown.
- or [1] Appropriate work is shown, but no answer or an incorrect answer is found.
- or [1] 42 nickels and 21 dimes, but no work is shown.
- [0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously incorrect procedure.
- [15] incorrect procedure.

- [3] Four 20-cent and eight 32-cent stamps, and appropriate work is shown, such as a system of equations, or a linear equation such as  $2x(.32) + .20x = 3.36$ , or trial and error with at least three trials and appropriate checks.
- [2] Appropriate work is shown, but one computational error is made, but appropriate quantities are found for each stamp.
- or [2] Appropriate work is shown, but the quantity for only one of the stamps is found.
- or [2] Appropriate work is shown, but the solutions are not labeled or the labels are reversed.
- or [2] The trial-and-error method is used to find correct solutions, but only two trials and appropriate checks are shown.
- [1] Appropriate work is shown, but two or more computational errors are made, but appropriate quantities are found for each stamp.
- or [1] The trial-and-error method is attempted, and at least six systematic trials and appropriate checks are shown, but no solution is found.
- or [1] An incorrect equation or system of equations of equal difficulty is solved appropriately for both solutions.
- or [1] A correct equation or system of equations is written, but no further correct work is shown.
- or [1] Four 20-cent and eight 32-cent stamps, but no work or only one trial with an appropriate check is shown.
- [0] Four and eight, but no work is shown, and the solutions are not labeled.
- or [0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously incorrect procedure.
- [16] obviously incorrect procedure.

[4] 65 adult tickets and 85 student tickets and an appropriate equation is shown, such as  $7.50x + 4.75(150 - x) = 891.25$ , or any other acceptable method is used.

[3] Either 65 or 85 and appropriate work is shown.

or [3] Appropriate work is shown, but one computational error is made that leads to two appropriate answers.

[2] An incorrect equation is shown, but it is solved appropriately for two answers.

or [2] The correct equation is shown, but two computational errors are made.

[1] Appropriate work is shown, but no answer is found.

or [1] 65 and 85 but no work is shown.

[0] Either 65 or 85 and no work is shown.

or [0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an

[17] obviously incorrect procedure.

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a [2] The student writes an appropriate system of equations, such as  $b = f + 100$  and  $4b + 12f = 3,056$ , and defines the variables.

or [2] The student writes an appropriate equation, such as  $4(100 + x) + 12x = 3,056$ , and defines the variable.

[1] A correct equation or correct equations are shown, but the variables are not defined.

or [1] One error is made in the setup, such as  $b + f = 100$ .

[0] The student only defines the variables.

b [2] 266, and appropriate work is shown, using an algebraic solution or a correct trial-and-error method.

or [2] Appropriate work is shown for an incorrect part a equation or system of equations.

[1] Work is shown, but the answer is inappropriate, such as \$1,064.

or [1] 266, but no work is shown.

a and b [0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an

[18] obviously incorrect procedure.

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[4] 36 T-shirts and 12 caps, and appropriate work is shown, such as an appropriate system of equations or a correct trial-and-error method with at least two trials and appropriate checks.

[3] Appropriate work is shown, but only the correct number of T-shirts or the correct number of caps is determined.

or [3] One error is made, resulting in an incorrect number of T-shirts or caps, but the corresponding number of the other item is determined appropriately.

[2] An appropriate method is shown, but no answer is found.

or [2] The variables are represented correctly, and a correct equation or system of equations is written, but the process is not completed.

or [2] 36 T-shirts and 12 caps, but only one trial and appropriate checks are shown.

or [2] The variables are represented correctly, but an incorrect equation is written, but the solution is completed appropriately.

[1] 36 T-shirts and 12 caps, but no work is shown.

[0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously

[19] incorrect procedure.

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[4] 210, and appropriate work is shown, such as a system of equations or the linear equation  $5x + 2(295 - x) = 1,220$ .

[3] Appropriate work is shown, but one computational error is made.

or [3] Appropriate work is shown, but the number of children's tickets is found as the answer.

[2] Appropriate work is shown, but two or more computational errors are made.

or [2] Appropriate work is shown, but one conceptual error is made.

or [2] An incorrect equation of equal difficulty is solved appropriately.

or [2] 210, but a method other than an algebraic solution is used.

[1] Appropriate work is shown, but one conceptual error and one computational error are made.

or [1] The correct system of equations or linear equation is written, but no further correct work is shown.

or [1] 210, but no work is shown.

[0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously

[20] incorrect procedure.

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[2] 14 and 42, and appropriate work is shown, such as  $x + 3x = 56$ , a table, or trial and error with at least three trials and appropriate checks.

[1] Appropriate work is shown, but one computational error is made.

or [1] Appropriate work is shown, but only one of the two lengths is found.

or [1] A correct equation is written and solved, but the lengths are not stated.

or [1] An incorrect equation of equal difficulty is solved appropriately.

or [1] 14 and 42, but no work or fewer than three trials with appropriate checks are shown.

[0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously

[21] incorrect procedure.

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[4] 17 nickels and 15 dimes, and appropriate work is shown, such as the equation  $0.05x + 0.10(32 - x) = 2.35$  or trial and error with at least three trials and appropriate checks.

[3] Appropriate work is shown, but one computational error is made.

or [3] Appropriate work is shown, and the correct answers are found, but they are not labeled or are labeled incorrectly.

or [3] Appropriate work is shown, but only the correct number of nickels or the correct number of dimes is found and labeled.

[2] Appropriate work is shown, but two or more computational errors are made.

or [2] Appropriate work is shown, but one conceptual error is made.

or [2] The trial-and-error method is used to find the correct solution, but only two trials and appropriate checks are shown.

or [2] The trial-and-error method is attempted and at least six systematic trials and appropriate checks are shown, but no solution is found.

or [2] An incorrect system of equations of equal difficulty is solved appropriately for both the number of nickels and dimes.

or [2] A correct equation is solved for  $x$ , but no further correct work is shown.

[1] Appropriate work is shown, but one conceptual error and one computational error are made.

or [1] A correct equation is written, but no further correct work is shown.

or [1] 17 nickels and 15 dimes, but no work or only one trial with an appropriate check is shown.

[0] 17 nickels or 15 dimes, but no work or only one trial with an appropriate check is shown.

or [0] 17 and 15, but no work is shown, and the answers are not labeled or are labeled incorrectly.

or [0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an

[22] obviously incorrect procedure.

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[23] D

[24] B

[25] C

[26] C

[3] Correct answer of 125 with appropriate equations or method showing that 220 votes were split between  $D$  and  $E$  so that  $D$  had at least 30 votes more than  $E$ .

[2] An appropriate method to arrive at 220 votes for  $D$  and  $E$  and shows a difference of 30 votes but then answer is incorrect such as 140.

[1] Answer 125 with no appropriate method shown.

or [1] Computes the 220 votes for  $D$  and  $E$  and merely divides them by 2 to arrive at 110.

or [1] Subtracts 30 from 220 to arrive at

[27] answer of 190.

[28] B

[3] Seth had 101, Jason had 51, and Raoul had 104, and appropriate work is shown, such as  $x + 25 = (2x - 1) - 25$  or trial and error with at least three trials and appropriate checks.

[2] Appropriate work is shown, but one computational error is made.

or [2] 101, 51, and 104, and appropriate work is shown, but the solutions are not labeled or are labeled incorrectly.

or [2] A correct equation is solved, but the number of CDs for only one boy is found.

or [2] The trial-and-error method is used to find a correct solution, but only two trials and appropriate checks are shown.

[1] Appropriate work is shown, but more than one computational error is made.

or [1] Appropriate work is shown, but one conceptual error is made, but an appropriate number of CDs is found for each boy.

or [1] A correct equation is written, but no further correct work is shown.

or [1] Seth had 101, Jason had 51, and Raoul had 104, but no work or only one trial with an appropriate check is shown.

[0] Seth had 101 or Jason had 51 or Raoul had 104, but no work is shown.

or [0] 101, 51, and 104, but no work is shown and the solutions are not labeled or are labeled incorrectly.

or [0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an

[29] obviously incorrect procedure.

[3] \$16,400, and appropriate work is shown, such as

200 tickets sold at the door    \$32 = \$ 6,400

400 tickets sold in advance    \$25 = \$10,000  
\$16,400

[2] The correct number of tickets is shown, but one computational error is made in computing the total amount of money collected.

or [2] \$6,400 and \$10,000 are calculated correctly, but they are not added to obtain the total.

[1] The numbers of tickets, 200 and 400, are calculated correctly.

or [1] An appropriate solution is found, but it is based on incorrect numbers of tickets.

or [1] \$16,400, but no work is shown.

[0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously

[30] incorrect procedure.

[4] \$6.15, and appropriate work is shown, such as solving simultaneous equations or using a trial-and-error method.

[3] \$2.95 (movie) and \$3.20 (game) are found, but they are not added.

or [3] Appropriate work is shown, but one computational error is made.

[2] The system of equations is set up correctly, but one conceptual error leads to an appropriate solution.

or [2] \$2.95 (movie) or \$3.20 (game), and appropriate work is shown.

[1] \$6.15, but no work is shown.

[0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously

[31] incorrect procedure.

[2] \$6.85, and appropriate work is shown.

[1] The correct rate for the first 5 minutes and the correct rate for each additional minute is shown, but the cost of a 30-minute call is not found.

or [1] Appropriate work is shown, but one computational error is made.

or [1] \$6.85, but no work is shown.

[0] The student calculates either the rate for the first 5 minutes or the rate for each additional minute, but no further work is shown.

or [0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an

[32] obviously incorrect procedure.