Algebra 1: Systems of Equations **Name**_____ **PD** ____
SHOW ALL WORK FOR CREDIT
DUE: MARCH 23rd

Scantron Performance Series/Global Scholar Practice Quiz – 8 Points

Read each question carefully and select the correct answer.

1. You are planning a vacation for you and a friend and you must choose the most economical places to stay and eat. The Colonial Bed and Breakfast has two vacation plans. Vacation Plan A includes two nights stay and one meal for $106.00. Vacation Plan B includes two nights stay and four meals for $130.00. How much is the Colonial Bed and Breakfast charging for each night's stay and each meal?

A. $93.00 per night / $23.00 per meal
B. $49.00 per night / $8.00 per meal
C. $56.40 per night / $47.20 per meal
D. $81.00 per night / $8.00 per meal

2. Solve this system of equations:

$12x - 5y = 30$
$y = 2x - 6$

A. $x = 5/6, y = -4$
B. $x = 2, y = -6/5$
C. $x = 0, y = 6$
D. $x = 0, y = -6$

3. Super Snack, a convenience store, charges $4.35 for a large chicken sandwich and two large colas. For a large chicken sandwich and a large cola, they charge $4.00. How much are the Super Snack large chicken sandwiches?

A. $3.65
B. $3.65 with 2 colas and $4.00 with 1 cola
C. $4.00
D. $4.17

4. Moving van company A charges a $40.00 fee to rent a van. In addition to this fee, they charge $0.35 a mile. Moving van company B charges $14.00 a day and $0.30 a mile to rent their vans. Aaron needs to rent a moving van for 5 days. He will be driving 120 miles. Which company should Aaron choose if he wants to spend the least amount of money?

A. Company B
B. Company A
C. It is the same amount for both company A and company B.
D. Not enough information given to answer the question.

5. A step toward solving these equations by addition could be:

$12x - 3y = 4$
$-2 - 2y = -4x$

A. multiplying $12x - 3y = 4$ by 2
B. add $12x$ and $-4x$
C. adding $24x$ to $12x$
D. multiply $-2 - 2y = -4x$ by -3

6. Solve this system of equations:

$4x + 5y = 3$
$2x + y = 0$

A. $\left(\frac{3}{7}, \frac{9}{35}\right)$
B. $\left(\frac{3}{14}, \frac{3}{7}\right)$
C. $(2, -1)$
D. $\left(\frac{-1}{2}, 1\right)$

7. A possible step toward solving these equations by addition could be:

$4y - 6x = 11$
$-8x - 4y = 13$

A. adding $-6x$ and $-8x$
B. multiplying $4y - 6x = 11$ by -3 and $-8x - 4y = 13$ by 3
C. subtracting 13 and 11
D. plugging $x = 1/7$ into the equation $-4y - 8x = 13$

8. Four pancakes and three eggs at Candy's Café cost $7.95. Two pancakes and three eggs at Burger Palace cost $5.95. Which option shows the best method for calculating the amount that each restaurant is charging for each pancake and each egg?

A. $-2p = \$13.90$
B. $6p = \$13.90$
C. $4p + 3e = \$7.95$ and $2p + 3e = \$5.95$
D. $4 + 3(p + e) = \$7.95$ and $2 + 3(p + e) = \$5.95$