*Which one of the following statements is true?*

*a.    A cash register contains $24.35 in dimes and quarters.  There are 124 coins in all.  If x represents the number of dimes and y represents the number of quarters, the system that models this situation is*

*x + y = 124    and .10x + .25y = 24.35*

*b.    A company purchases six large delivery vans and three small ones.  One of the company's stores receives three of the large vans and one small one for a total cost of $122,000.  The company's other store receives the remaining vans for a total cost of $148,000.  If x represents the cost of a large van and y represents the cost of a small van, the system that models this situation is*

*3x + y = 122,000    and    6x+3y = 148,000*

*c.    Three times the tens digit plus two times the units' digit of a two-digit number is 24.  The number is seven less than four times its units digit.  If t represents the tens' digit and u the units' digit, the system that models this situation is:*

*3t+2u = 24        and        tu = 4u - 7*

*d.    When a crew rows with the current, it travels 18 miles in 2 hours.  Against the current, the crew rows 10 miles in 2 hours.  If x represents the rate of the boat in still water and y represents the rate of the current, the system that models this situation is:*

*2(x-y) = 18            and    2(x+y) = 10*