Writing an Inequality

1. Five students transferred out of a class with n students in it. The class size is now below 28 students. Which inequality can the school principal use to find the number of students, n, who were originally in the class?

   a. $28 - 5 < n$　　　b. $28 < n - 5$　　　c. $n - 5 < 28$　　　d. $5 - n < 28$

2. Kyra has 1 dime and an amount of nickels, n. If the total value of the change is at least $0.45, which inequality can Napoleon use to find the number of nickels that he has?

   a. $0.15n \geq 0.45$　　b. $0.05n + 0.1 \leq 0.45$　　c. $0.05n + 0.1 \geq 0.45$　　d. $0.15 \leq 0.45$

3. Write and solve the following inequalities
   a. Ms. Drayton's volleyball team charges $4.50 per car at their car wash. How many cars do they have to wash to earn at least $300?

b. An elevator can safely hold no more than 2000 pounds. A worker must use the elevator to take 55-lb boxes to a storage area. If the worker weighs 165 pounds, how many boxes can he safely move at one time?

c. Meijer sells T-shirts for $12. How many shirts must be sold to make at least $400

d. Niccos wants to buy his girlfriend as many roses as he can. He has $40.00 to spend. How many roses can he buy if each rose cost $2.50