## 2.1 Coin and Mixture Problems - Day 2

1. Betty buys some pens and pencils. She buys 7 more pens than pencils. Pens cost \$.45 each and pencils cost \$.40 each. If she spends \$9.95, how many of each can she buy?

2. An adult ticket to a football game was \$1.75. A student ticket was \$1.25. The number of student tickets sold was twice the number of adult tickets. The total from the ticket sales was \$850. How many adult tickets were sold?

let 
$$X = \#$$
 of adult tickets (1.75)  
 $2X = \#$  of Student tickets (1.25)  
Value  
adult + student = 850  
1.75(X) + 1.25(2X) = 850  
1.75X + 2.50X = 850  
 $X = \#$  200 adult tickets  
 $X = \#$  200

## **HOMEWORK**

Worksheet - HW 2.1 - Coin & Mixture Day 2