SYSTEM OF EQUATIONS-WORD PROBLEMS #3

Directions: Find the answers to each situation below by setting up and solving a system of equations.

1) Alex bought some chips and pop for his class party. He bought a total of 32 items. Each bag of chips cost $0.75 and each bottle of pop cost $2.19. He spent a total of $39.84. How many bags of chips and how many bottles of pop did he buy?
   \[ c + p = 32 \]
   \[ 0.75c + 2.19p = 39.84 \]
   \[ c = \]
   \[ p = \]

2) Madison collected a bunch of dimes and quarters for her school fundraiser. She collected a total of 122 coins and a total of $21.50. How many dimes and how many quarters did she collect?
   \[ d = \]
   \[ q = \]

3) Aiden bought some notebooks and book covers for the upcoming school year. He bought a total of 13 items. Each notebook cost $1.37, and each book cover cost $1.08. He spent a total of $16.36. How many notebooks and how many book covers did he buy?
   \[ n = \]
   \[ b = \]

4) Elizabeth and her sister earned money shoveling snow over winter break. Altogether, they shoveled for a total of 30 hours. Jenna charged her customers $12 per sidewalk, and her sister charged $11 per sidewalk. If they earned $347.50 total, how many hours did each girl spend shoveling?
   \[ e = \]
   \[ s = \]

5) Jacob puts all of his pennies and nickels in his piggy bank. He has saved up a total of 474 coins. Altogether, there is a total of $11.22 in his bank. How many pennies and how many nickels does he have in his piggy bank?
   \[ p = \]
   \[ n = \]

6) Sophia earned some extra money by baby-sitting over the summer. She charged $6.25 per infant, and $9.50 for any child over the age of 3. She earned a total of $245.50 while baby-sitting for 32 children. How many infants and how many children over 3 did she babysit?
   \[ i = \]
   \[ c = \]