Name_____

SYSTEM OF EQUATIONS-WORD PROBLEMS #4

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

1) Ethan bought some *chips* and *pop* for his class party. He bought a total of 29 items. Each bag of chips cost $0.79 and each bottle of pop cost $2.29. He spent a total of $36.41. How many bags of chips and how many bottles of pop did he buy?

$c + p = 29$

$0.79c + 2.29p = 36.41$

c = _____

p = _____

2) Isabella collected a bunch of *dimes* and *quarters* for her school fundraiser. She collected a total of 211 coins and a total of $37.30. How many dimes and how many quarters did she collect?

d = _____

q = _____

3) Liam bought some *notebooks* and *book covers* for the upcoming school year. He bought a total of 12 items. Each notebook cost $1.33, and each book cover cost $1.10. He spent a total of $14.81. How many notebooks and how many book covers did he buy?

n = _____

b = _____

4) *Emily* and her *sister* earned money shoveling snow over winter break. Altogether, they shoveled for a total of 40 hours. Jenna charged her customers $13 per sidewalk, and her sister charged $10 per sidewalk. If they earned $461.50 total, how many hours did each girl spend shoveling?

e = _____

s = _____

5) Mike puts all of his *pennies* and *nickels* in his piggy bank. He has saved up a total of 1,032 coins. Altogether, there is a total of $27.52 in his bank. How many pennies and how many nickels does he have in his piggy bank?

p = _____

n = _____

6) Jenna earned some extra money by baby-sitting over the summer. She charged $6.50 per *infant*, and $9.50 for any *child* over the age of 3. She earned a total of $202.50 while baby-sitting for 27 children. How many infants and how many children over 3 did she babysit during the summer?

i = _____

c = _____