

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) Daniel bought *hamburgers* and *fries* for each of his classmates. The hamburgers cost \$1.49 each, and a bag of fries cost \$1.19. Ben spent at total of \$50.90. The number of hamburgers was five less than twice the amount of fries. How many hamburgers and how many bags of fries did he buy?

$$\begin{cases} 1.49h + 1.19f = 50.90 \\ h = 2f - 5 \end{cases}$$

h = _____

f = _____

- 2) Madison works two part-time jobs, one *before* school and one *after* school. Before school, she earns \$11.50/hour, and after school she earns \$11.75/hour. Last week, she earned a total of \$262.50. She works twice as many hours after school. How many hours did she work at each job last week?

b = _____

a = _____

- 3) Joshua has only *dimes* and *pennies* in his piggy bank. He has a total of \$23.00 in his bank. The amount of pennies is twenty more than ten times the amount of dimes. How many dimes and pennies are there?

d = _____

p = _____

- 4) In a half-time skills contest Maria received \$10 for each free throw she *hit* and lost \$3 for each *miss*. She earned a total of \$142. The amount of free throws she made was eight less than four times the amount she missed. How many of each did she make?

h = _____

m = _____

- 5) Alex bought some *gum* for 15 cents each and some *candy* for \$0.25 each. The amount of candy was 10 less than five times the amount of gum. He spent a total of \$4.50. How much of each did he buy?

g = _____

c = _____

- 6) The perimeter of a rectangle is 58 cm. The *length* of the rectangle is four centimeters less than three times the size of the *width*. What is the length and width of the rectangle?

L = _____

W = _____