

Name \_\_\_\_\_

**SYSTEM OF EQUATIONS-WORD PROBLEMS #3**

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

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- 1) Joseph bought *hamburgers* and *fries* for each of his classmates. The hamburgers cost \$1.29 each, and a bag of fries cost \$1.09. Ben spent at total of \$46.40. The number of hamburgers was one less than twice the amount of fries. How many hamburgers and how many bags of fries did he buy?

$$\begin{cases} 1.29h + 1.09f = 46.40 \\ h = 2f - 1 \end{cases}$$

**h** = \_\_\_\_\_

**f** = \_\_\_\_\_

- 2) Ella works two part-time jobs, one *before* school and one *after* school. Before school, she earns \$11.25/hour, and after school she earns \$11.75/hour. Last week, she earned a total of \$278. She works twice as many hours after school. How many hours did she work at each job last week?

**b** = \_\_\_\_\_

**a** = \_\_\_\_\_

- 3) Jose has a only *dimes* and *quarters* in his piggy bank. He has a total of \$62.20 in his bank. The amount of dimes is six more than three times the amount of quarters. How many dimes and quarters are there?

**d** = \_\_\_\_\_

**q** = \_\_\_\_\_

- 4) In a half-time skills contest Addison received \$5 for each *free throw* she made and \$10 for each *3-point shot*. She earned a total of \$140. The amount of free throws she made was four less than twice the amount of three pointers. How many of each did she make?

**f** = \_\_\_\_\_

**t** = \_\_\_\_\_

- 5) Chris bought some *gum* for 10 cents each and some *candy* for 15 cents each. The amount of candy was 12 less than three times the amount of gum. He spent a total of \$2.10. How much of each did he buy?

**g** = \_\_\_\_\_

**c** = \_\_\_\_\_

- 6) The perimeter of a rectangle is 194 cm. The *length* of the rectangle is three centimeters less than four times the size of the *width*. What is the length and width of the rectangle?

**L** = \_\_\_\_\_

**W** = \_\_\_\_\_