| Student: | Instructor: Deb Wertz <br> Course: MAP102 MASTER | Assignment: Homework \#23 |
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| Date: |  |  |

1. A woman bought some large frames for $\$ 16$ each and some small frames for $\$ 4$ each at a closeout sale. If she bought 29 frames for $\$ 236$, find how many of each type she bought.

She bought $\qquad$ large frames.

She bought $\qquad$ small frames.
2. One number is nine less than a second number. Three times the first is 6 more than 4 times the second. Find the numbers.

The value of the first number is $\qquad$ .

The value of the second number is $\qquad$ .
3. At a concession stand, five hot dog(s) and four hamburger(s) cost $\$ 16.50$; four hot dog(s) and five hamburger(s) cost $\$ 17.25$. Find the cost of one hot dog and the cost of one hamburger.

What is the cost of one hot dog? \$ $\qquad$
What is the cost of one hamburger? \$
4. Solve the system of equations.

$$
\left\{\begin{array}{r}
9 x-2 y=65 \\
-2 x+5 y=22
\end{array}\right.
$$

Select the correct choice below and, if necessary, fill in the answer box to complete your choice.A. There is one solution. The solution of the system is $\qquad$ . (Simplify your answer. Type an ordered pair.)B. The solution set of the system is $\{(x, y) \mid 9 x-2 y=65\}$.C. The solution set is $\varnothing$.
5. Solve the system of equations by the substitution method.
$\left\{\begin{aligned} \frac{x}{4}+y & =-\frac{25}{4} \\ -x+4 y & =-31\end{aligned}\right.$
Select the correct choice below and, if necessary, fill in the answer box to complete your choice.There is one solution. The solution of the system is $\qquad$ .
(Simplify your answer. Type an ordered pair.)B. The solution set of the system is $\left\{(x, y) \left\lvert\, \frac{x}{4}+y=-\frac{25}{4}\right.\right\}$.C. The solution set is $\varnothing$.

1. 10

19
2. -42
$-33$
3. 1.50
2.25
4. A. There is one solution. The solution of the system is $(9,8)$ (Simplify your answer. Type an ordered pair.)
5. A. There is one solution. The solution of the system is

