Algebra I Lesson \#4 Unit 9 Class Worksheet \#4 For Worksheets \#5 - \#8

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.

1. The sum of two numbers is 20 . The first number is 4 less than three times the second. What are the numbers?

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first:
second:

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1. The sum of two numbers is 20 . The first number is 4 less than three times the second. What are the numbers?
first: x
second: y

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first: $\mathbf{x}$
second: y

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first: $\mathbf{x} \quad \mathbf{x}+\mathbf{y}$
second: y

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1. The sum of two numbers is 20 . The first number is 4 less than three times the second. What are the numbers?
first: $\mathbf{x} \quad \mathbf{x}+\mathbf{y}=\mathbf{2 0}$
second: y

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second: y

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first: $\mathbf{x} \quad \mathbf{x}+\mathbf{y}=\mathbf{2 0}$
second: $\mathbf{y} \quad \mathrm{x}=$

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1. The sum of two numbers is 20 . The first number is 4 less than three times the second. What are the numbers?
first: $x \quad x+y=20$
second: $y \quad x=3 y-4$

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second: $y \quad x=3 y-4$

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1. The sum of two numbers is 20 . The first number is 4 less than three times the second. What are the numbers?
first: $x \quad x+y=20 \quad(3 y-4)$
second: $y \quad x=3 y-4$

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Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.

1. The sum of two numbers is 20 . The first number is 4 less than three times the second. What are the numbers?
first: x

$$
x+y=20
$$

$$
(3 y-4)+y
$$

second: $y \quad x=3 y-4$

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1. The sum of two numbers is 20 . The first number is 4 less than three times the second. What are the numbers?
first: x

$$
x+y=20
$$

$$
(3 y-4)+y=20
$$

second: $y \quad x=3 y-4$

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1. The sum of two numbers is 20 . The first number is 4 less than three times the second. What are the numbers?
first: $\mathbf{x}$

$$
x+y=20
$$

$(3 y-4)+y=20$
second: y
$x=3 y-4$
$4 y$

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first: $\mathbf{x}$

$$
x+y=20
$$

$$
(3 y-4)+y=20
$$

second: y
$x=3 y-4$
$4 y-4$

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first: $\mathbf{x}$

$$
x+y=20
$$

$$
(3 y-4)+y=20
$$

second: y
$x=3 y-4$
$4 y-4=20$

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first: $x \quad x+y=20 \quad(3 y-4)+y=20$
second: $y \quad x=3 y-4$

$$
4 y-4=20
$$

4y

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first: $x \quad x+y=20$
second: $y \quad x=3 y-4$

$$
\begin{gathered}
(3 y-4)+y=20 \\
4 y-4=20 \\
4 y=24
\end{gathered}
$$

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1. The sum of two numbers is 20 . The first number is 4 less than three times the second. What are the numbers?
first: $x \quad x+y=20$
second: $y \quad x=3 y-4$

$$
\begin{gathered}
(3 y-4)+y=20 \\
4 y-4=20 \\
4 y=24 \\
y=6
\end{gathered}
$$

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1. The sum of two numbers is 20 . The first number is 4 less than three times the second. What are the numbers?
first: $\mathbf{x} \quad \mathbf{x}+\mathbf{y}=\mathbf{2 0}$
second: $y \quad x=3 y-4$

$$
(3 y-4)+y=20 \quad x=3 y-4
$$

$$
4 y-4=20
$$

$$
4 y=24
$$

$$
y=6
$$

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first: $x \quad x+y=20$
second: $y \quad x=3 y-4$

$$
\begin{array}{cl}
(3 y-4)+y=20 & x=3 y-4 \\
4 y-4=20 & x= \\
4 y=24 & \\
y=6 &
\end{array}
$$

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Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.

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first: $\mathbf{x} \quad \mathbf{x}+\mathbf{y}=\mathbf{2 0}$
second: $y \quad x=3 y-4$

$$
\begin{array}{cl}
(3 y-4)+y=20 & x=3 y-4 \\
4 y-4=20 & x=3(6)-4
\end{array}
$$

$$
4 y=24
$$

$$
y=6
$$

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first: $\mathbf{x} \quad \mathbf{x}+\mathbf{y}=\mathbf{2 0}$
second: $y \quad x=3 y-4$

$$
\begin{array}{cl}
(3 y-4)+y=20 & x=3 y-4 \\
4 y-4=20 & x=3(6)-4 \\
4 y=24 & x= \\
y=6 &
\end{array}
$$

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first: $\mathbf{x} \quad \mathbf{x}+\mathbf{y}=\mathbf{2 0}$
second: $y \quad x=3 y-4$

$$
\begin{array}{cl}
(3 y-4)+y=20 & x=3 y-4 \\
4 y-4=20 & x=3(6)-4 \\
4 y=24 & x=18-4 \\
y=6 &
\end{array}
$$

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1. The sum of two numbers is 20 . The first number is 4 less than three times the second. What are the numbers?
first: $\mathbf{x} \quad \mathbf{x}+\mathbf{y}=\mathbf{2 0}$
second: $y \quad x=3 y-4$

$$
\begin{array}{cl}
(3 y-4)+y=20 & x=3 y-4 \\
4 y-4=20 & x=3(6)-4 \\
4 y=24 & x=18-4 \\
y=6 & x=14
\end{array}
$$

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1. The sum of two numbers is 20 . The first number is 4 less than three times the second. What are the numbers?
first: $\mathbf{x} \quad \mathbf{x}+\mathbf{y}=\mathbf{2 0}$
second: $y \quad x=3 y-4$

$$
\begin{array}{cl}
(3 y-4)+y=20 & x=3 y-4 \\
4 y-4=20 & x=3(6)-4 \\
4 y=24 & x=18-4 \\
y=6 & x=14
\end{array}
$$

The first number is 14 , and the second number is $\mathbf{6}$.

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
2. The sum of two numbers is 15 . Their difference is 9 . What are the numbers?

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2. The sum of two numbers is 15 . Their difference is 9 . What are the numbers?

## first:

second:

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2. The sum of two numbers is 15 . Their difference is 9 . What are the numbers?
first: $\mathbf{x}$ second: y

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2. The sum of two numbers is 15 . Their difference is 9 . What are the numbers?
first: x second: y

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2. The sum of two numbers is 15 . Their difference is 9 . What are the numbers?
first: $\mathbf{x}$

$$
\mathbf{x}+\mathbf{y}=
$$ second: y

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Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
2. The sum of two numbers is 15 . Their difference is 9 . What are the numbers?
first: $x \quad x+y=15$ second: y

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first: $x \quad x+y=15$ second: y

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2. The sum of two numbers is 15 . Their difference is 9 . What are the numbers?

$$
\begin{array}{rl}
\text { first: } x & x+y=15 \\
\text { second: } y & x-y
\end{array}
$$

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2. The sum of two numbers is 15 . Their difference is 9 . What are the numbers?

$$
\begin{array}{rl}
\text { first: } x & x+y=15 \\
\text { second: } y & x-y=9
\end{array}
$$

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$$
\begin{array}{rl}
\text { first: } x & x+y=15 \\
\text { second: } y & x-y=9
\end{array}
$$

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2. The sum of two numbers is 15 . Their difference is 9 . What are the numbers?

$$
\begin{array}{rl}
\text { first: } x & x+y=15 \\
\text { second: } y & x-y=9 \\
\hline
\end{array}
$$

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2. The sum of two numbers is 15 . Their difference is 9 . What are the numbers?

| first: $x$ |  |
| ---: | :---: |
| second: $y$ | $x+y=15$ <br>  <br> $-y=9$ |
| $2 x$ |  |

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2. The sum of two numbers is 15 . Their difference is 9 . What are the numbers?

$$
\begin{array}{rr}
\text { first: } x \\
\text { second: } y & \begin{array}{c}
x+y=15 \\
x-y=9
\end{array} \\
& 2 x=24
\end{array}
$$

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2. The sum of two numbers is 15 . Their difference is 9 . What are the numbers?

$$
\begin{array}{rr}
\text { first: } x \\
\text { second: } y & \begin{array}{r}
x+y
\end{array}=15 \\
-y=9 \\
2 x & =24 \\
x & =12
\end{array}
$$

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2. The sum of two numbers is 15 . Their difference is 9 . What are the numbers?

$$
\begin{array}{ccc}
\text { first: } x & x+y=15 & x+y=15 \\
\text { second: } y & \begin{aligned}
x-y & =9
\end{aligned} \\
\cline { 2 - 2 } & 2 x=24 & \\
& x=12 &
\end{array}
$$

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2. The sum of two numbers is 15 . Their difference is 9 . What are the numbers?

$$
\begin{array}{ccc}
\text { first: } x & x+y=15 & x+y=15 \\
\text { second: } y & \begin{array}{c}
x-y=9
\end{array} & \mathbf{1 2 + y} \\
\cline { 2 - 2 } & 2 x=24 & \\
& x=12 &
\end{array}
$$

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$$
\begin{array}{ccc}
\text { first: } x & x+y=15 & x+y=15 \\
\text { cond: } y & x-y=9 & 12+y=15 \\
\cline { 2 - 2 } & 2 x=24 & \\
& x=12 &
\end{array}
$$

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2. The sum of two numbers is 15 . Their difference is 9 . What are the numbers?

$$
\begin{array}{ccc}
\text { first: } x & x+y=15 & x+y=15 \\
\text { cond: } y & \mathbf{x}-\mathbf{y}=9 & 12+y=15 \\
\cline { 2 - 2 } & 2 x=24 & y=3 \\
& x=12 &
\end{array}
$$

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Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
2. The sum of two numbers is 15 . Their difference is 9 . What are the numbers?

| second: y | $\begin{aligned} & x+y=15 \\ & x-y=9 \end{aligned}$ | $\begin{gathered} x+y=15 \\ 12+y=15 \end{gathered}$ |
| :---: | :---: | :---: |
|  | $2 \mathrm{x}=24$ | $y=3$ |
|  | $\mathrm{x}=12$ |  |

The numbers are 12 and 3.

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Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
3. A coin collection consists of ordinary dimes and nickels and is worth a total of $\$ 3.20$. If there are 40 coins in the collection, then how many coins of each type are there?

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## dimes:

nickels:

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```
number
of coins
```

dimes:
nickels:

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```
number
of coins
```

dimes: $x$
nickels: $y$

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```
number
of coins
```

dimes: $\mathbf{x}$
nickels: $\mathbf{y}$

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```
number
of coins
```

dimes: $\mathbf{x}$
nickels: $\mathbf{y}$
total

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3. A coin collection consists of ordinary dimes and nickels and is worth a total of $\$ 3.20$. If there are 40 coins in the collection, then how many coins of each type are there?

|  | number <br> of coins |
| :---: | :---: |
| dimes: | $x$ |
| nickels: | $y$ |
| total | $\mathbf{y}$ |

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Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
3. A coin collection consists of ordinary dimes and nickels and is worth a total of $\$ 3.20$. If there are 40 coins in the collection, then how many coins of each type are there?
number
of coins

## dimes: $x$

| nickels: | $\frac{y}{40}$ |
| :---: | :---: |
| total | 40 |

total 40

$$
\mathbf{x}+\mathbf{y}
$$

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3. A coin collection consists of ordinary dimes and nickels and is worth a total of $\$ 3.20$. If there are 40 coins in the collection, then how many coins of each type are there?
number
of coins

## dimes: $x$

| nickels: | $\frac{y}{40}$ |
| :---: | :---: |
| total | 40 |

total 40

$$
x+y=40
$$

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3. A coin collection consists of ordinary dimes and nickels and is worth a total of $\$ 3.20$. If there are 40 coins in the collection, then how many coins of each type are there?
number
of coins

## dimes: $x$

| nickels: | $\frac{y}{\text { total }}$ |
| :---: | :---: |
| 40 |  |

total 40

$$
x+y=40
$$

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3. A coin collection consists of ordinary dimes and nickels and is worth a total of $\$ 3.20$. If there are 40 coins in the collection, then how many coins of each type are there?

|  | number <br> of coins |
| :---: | :---: |
| dimes: | $\mathbf{x}$ |
| nickels: | $\mathbf{y}$ |
| total | $\mathbf{4 0}$ |

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3. A coin collection consists of ordinary dimes and nickels and is worth a total of $\$ 3.20$. If there are 40 coins in the collection, then how many coins of each type are there?

|  | number <br> of colue of <br> of coins the coins |
| :---: | :---: |
| dimes: | $\mathbf{x} \quad 10 x$ |
| nickels: | $\mathbf{y}$ |
| total | $\frac{\mathbf{y y}}{40}$ |

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3. A coin collection consists of ordinary dimes and nickels and is worth a total of $\$ 3.20$. If there are 40 coins in the collection, then how many coins of each type are there?

|  | number <br> of colue of <br> of coins | $\mathbf{x}$ the coins |
| :---: | :---: | :---: |$\quad \mathbf{y}=\mathbf{4 0}$

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|  | number <br> ofalue of <br> of coins | $\mathbf{x}$ the coins |
| :---: | :---: | :---: |$\quad \mathbf{x}+\mathbf{y}=\mathbf{4 0}$

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|  | number <br> of coins |  |
| :---: | :---: | :---: |
| value of coins |  |  |
| dimes: | $\mathbf{x}$ | $\mathbf{1 0 x}$ |
| nickels: | $\mathbf{y}$ | $\mathbf{5 y c}$ |
| total | $\mathbf{4 0}$ | $\mathbf{3 2 0}$ |
|  |  |  |

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3. A coin collection consists of ordinary dimes and nickels and is worth a total of $\$ 3.20$. If there are 40 coins in the collection, then how many coins of each type are there?

| dimes: | number <br> of coins $\mathbf{X}$ | value of the coins $10 x c$ | $\begin{aligned} & x+y=40 \\ & 10 x+5 y \end{aligned}$ |
| :---: | :---: | :---: | :---: |
| nickels: | y | $5 y d$ |  |
| total | 40 | 320d |  |

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|  | number <br> of colue of <br> of coins the coins | $\mathbf{x}+\mathbf{y}=\mathbf{4 0}$ |
| :---: | :---: | :---: |
| dimes: | $\mathbf{x}$ | $\mathbf{1 0 x}$ |
| nickels: | $\mathbf{y}$ | $\mathbf{5 y c}$ |
| total | $\mathbf{4 0}$ | $\mathbf{3 2 0}$ |
|  |  |  |

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3. A coin collection consists of ordinary dimes and nickels and is worth a total of $\$ 3.20$. If there are 40 coins in the collection, then how many coins of each type are there?

|  | number <br> of coins the coins of | $\mathbf{x}+\mathbf{y}=\mathbf{4 0}$ |
| :---: | :---: | :---: |
| dimes: | $\mathbf{x}$ | $\mathbf{1 0 x}$ |
| nickels: | $\mathbf{y}$ | $\mathbf{5 y c}$ |
| total | $\mathbf{4 0}$ | $\mathbf{3 2 0}$ |
|  |  |  |

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
3. A coin collection consists of ordinary dimes and nickels and is worth a total of $\$ 3.20$. If there are 40 coins in the collection, then how many coins of each type are there?

|  | number of coins | value of the coins 10xc | $\begin{gathered} x+y=40 \\ 10 x+5 y=320 \end{gathered}$ |
| :---: | :---: | :---: | :---: |
| dimes: | $\mathbf{x}$ | $10 \times 5$ |  |
| nickels: | y | 5 yc |  |
| total | 40 | 320d |  |

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| dimes: | number of coins $\mathbf{x}$ | value of the coins 10xc | $\begin{gathered} x+y=40 \\ 10 x+5 y=320 \end{gathered}$ | $-5 x-5 y=-200$ |
| :---: | :---: | :---: | :---: | :---: |
| nickels: | y | 5 yc |  |  |
| total | 40 | 320¢ |  |  |

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|  | number of coins | value of the coins 10xc | $\begin{gathered} x+y=40 \quad \xrightarrow{-5} \\ 10 x+5 y=320 \end{gathered}$ | $-5 x-5 y=-200$ |
| :---: | :---: | :---: | :---: | :---: |
| dimes: | X | 10xc |  |  |
| nickels: | y | 5yc |  |  |
| total | 40 | 320¢ |  |  |

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| dimes: | number of coins x | value of the coins 10xc | $\begin{aligned} x+y=40 & \xrightarrow{-5}-5 x-5 y=-200 \\ 10 x+5 y=320 & \longrightarrow 10 x+5 y=320 \end{aligned}$ |
| :---: | :---: | :---: | :---: |
| nickels: | y | 5yc |  |
| total | 40 | 320¢ |  |

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| dimes: | number of coins $\qquad$ | value of the coins 10x | $$ |
| :---: | :---: | :---: | :---: |
| nickels: | y | 5 yc |  |
| total | 40 | 320¢ |  |

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| es: | number of coins X | value of the coins 10x | $\begin{gathered} x+y=40 \\ 10 x+5 y=320 \end{gathered}$ | $\begin{aligned} & -5 x-5 y=-200 \\ & \longrightarrow 10 x+5 y=320 \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: |
| nickels: | y | $5 y ¢$ |  | $5 \mathrm{x}=120$ |
|  |  |  |  | $\mathrm{x}=24$ |
| total | 40 | $320 ¢$ |  | $x+y=40$ |

## Algebra I Class Worksheet \#4 Unit 9

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## dimes:

quarters:

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```
number
of coins
```

dimes:
quarters:

## Algebra I Class Worksheet \#4 Unit 9

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```
number
of coins
```

dimes: $x$
quarters: $\mathbf{y}$

## Algebra I Class Worksheet \#4 Unit 9

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```
number
of coins
```

dimes: $x$
quarters: $\mathbf{y}$

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```
number value of
of coins the coins
```

dimes: $x$
quarters: $\mathbf{y}$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
4. A collection of ordinary dimes and quarters is worth $\$ 8$. The number of dimes is one less than two times the number of quarters. How many coins of each type are in the collection?
dimes: $\left.\quad \begin{array}{c}\text { number } \\ \text { of coins }\end{array} \begin{array}{c}\text { value of } \\ \text { the coins }\end{array}\right\}$
quarters: $\mathbf{y}$

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|  | number <br> of coins | value of <br> the coins |
| :---: | :---: | :---: |
| dimes: | $\mathbf{x}$ | $\mathbf{1 0 x c}$ |
| quarters: | $y$ | $25 y c$ |

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
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|  | number <br> of coins | value of <br> the coins |
| :---: | :---: | :---: |
| dimes: | $\mathbf{x}$ | $\mathbf{1 0 x}$ |
| quarters: | $\mathbf{y}$ | $\mathbf{2 5 y} \boldsymbol{y}$ |

total

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
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| dimes: |  | value of |
| :---: | :---: | :---: |
|  | $\mathbf{x}$ | 10xc |
| quarters: |  | 25yc |
| total |  | 800¢ |

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
4. A collection of ordinary dimes and quarters is worth $\$ 8$. The number of dimes is one less than two times the number of quarters. How many coins of each type are in the collection?

| dimes: | number of coins | value of the coins |
| :---: | :---: | :---: |
|  | $\mathbf{x}$ | 10x¢ |
| quarters | : y | 25yc |
| total |  | 800¢ |

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4. A collection of ordinary dimes and quarters is worth $\$ 8$. The number of dimes is one less than two times the number of quarters. How many coins of each type are in the collection?
$10 x+25 y=800$


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## 4. A collection of ordinary dimes and quarters is worth $\$ 8$. The

 number of dimes is one less than two times the number of quarters. How many coins of each type are in the collection?$$
10 x+25 y=800
$$

| dimes: |  | value of |
| :---: | :---: | :---: |
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| quarters: |  | 25yc |
| total |  | 800¢ |

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 number of dimes is one less than two times the number of quarters. How many coins of each type are in the collection?|  | number of coins | value of the coins | $\begin{gathered} 10 x+25 y=800 \\ x= \end{gathered}$ |
| :---: | :---: | :---: | :---: |
| dimes: | $\mathbf{x}$ | 10x¢ |  |
| quarters: | : y | 25yc |  |
| total |  | 800¢ |  |

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|  | number of coins | value of the coins | $\begin{gathered} 10 x+25 y=800 \\ x=2 y-1 \end{gathered}$ |
| :---: | :---: | :---: | :---: |
| dimes: | x | 10x¢ |  |
| quarters: | : y | 25yc |  |
| total |  | 800¢ |  |

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number value of of coins the coins
dimes: $x$ 10x¢
quarters: y 25yc
total 800c

$$
\begin{gathered}
10 x+25 y=800 \\
x=2 y-1
\end{gathered}
$$

## Algebra I Class Worksheet \#4 Unit 9

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|  | $\begin{aligned} & \text { numbe } \\ & \text { of coin } \end{aligned}$ | value of the coins |  | $\begin{gathered} 10 x+25 y=800 \\ x=2 y-1 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |
| dimes: | $\mathbf{x}$ | 10xc | 10( |  |
| quarters: | : y | 25yc |  |  |
| total |  | 800¢ |  |  |

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| dimes: <br> quarters: | of coins | value of the coins | $\begin{gathered} 10 x+25 y=800 \\ x=2 y-1 \end{gathered}$ |
| :---: | :---: | :---: | :---: |
|  | $\mathbf{x}$ | 10xc | 10(2y-1) + 25y |
|  | y | 25yc |  |
| total |  | 800¢ |  |

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| dimes: <br> quarters: | number <br> of coins | value of the coins | $\begin{gathered} 10 x+25 y=800 \\ x=2 y-1 \end{gathered}$ |
| :---: | :---: | :---: | :---: |
|  |  | 10x¢ | $10(2 y-1)+25 y=800$ |
|  | : y | 25yc |  |
| total |  | 800¢ |  |

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| :---: | :---: | :---: | :---: |
|  |  | 10xc | 10(2y-1) + $25 y=800$ |
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| total |  | 800 c |  |

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| :---: | :---: | :---: | :---: |
|  |  | 10x¢ | $10(2 y-1)+25 y=800$ |
|  |  | 25yc |  |
| total |  | 800 c |  |

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| dimes: <br> quarters: | number | value of the coins | $\begin{gathered} 10 x+25 y=800 \\ x=2 y-1 \end{gathered}$ |
| :---: | :---: | :---: | :---: |
|  |  | 10x¢ | 10(2y-1) + $25 y=800$ |
|  | y | 25yc |  |
| total |  | 800¢ |  |

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|  |  | $10 x+25 y=800$ |
| :---: | :---: | :---: |
| $\begin{array}{c}\text { number } \\ \text { of coilue of } \\ \text { of coins } \\ \text { the coins }\end{array}$ |  | $x=2 y-1$ |$)$

## Algebra I Class Worksheet \#4 Unit 9

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|  | number <br> of coins | value of the coins | $\begin{gathered} 10 x+25 y=800 \\ x=2 y-1 \end{gathered}$ |
| :---: | :---: | :---: | :---: |
| dimes: |  | 10xc | $10(2 y-1)+25 y=800$ |
| quarters: | y | 25yc |  |
| total |  | 800¢ | $45 y$ |

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| dimes: <br> quarters: <br> total | value of the coins | $\begin{gathered} 10 x+25 y=800 \\ x=2 y-1 \end{gathered}$ |
| :---: | :---: | :---: |
|  | 10xc | $10(2 y-1)+25 y=800$ |
|  | $25 y \mathrm{c}$ | $20 y-10+25 y=8$ |
|  | 800¢ | $45 y-10=800$ |
|  |  | $45 y=810$ |
|  |  | $y=18$ |

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| dimes: <br> quarters: <br> total | value of the coins | $\begin{gathered} 10 x+25 y=800 \\ x=2 y-1 \end{gathered}$ |  |
| :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & 10 \mathrm{xc} \\ & 25 \mathrm{yc} \end{aligned}$ | $\begin{array}{r} 10(2 y-1)+25 y=800 \\ 20 y-10+25 y=800 \end{array}$ | $\begin{gathered} x=2 y-1 \\ x=2(18)-1 \end{gathered}$ |
|  | 800¢ | $45 y-10=800$ | $\mathrm{x}=35$ |
|  |  | $45 y=810$ |  |
|  |  | $y=18$ |  |

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## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
5. Bill and Sue earned a total of $\$ 1000$. If Sue earned $\$ 25$ more than 4 times the amount earned by Tom, then how much did each person earn?

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Bill:
Sue:

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5. Bill and Sue earned a total of $\$ 1000$. If Sue earned $\$ 25$ more than 4 times the amount earned by Tom, then how much did each person earn?

Bill: x
Sue: y

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Bill: x
Sue: y
total

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Bill: $\quad x$
Sue: $\quad \underline{y}$
total 1000

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5. Bill and Sue earned a total of $\$ 1000$. If Sue earned $\$ 25$ more than 4 times the amount earned by Tom, then how much did each person earn?

Bill: $\quad \mathbf{x} \quad \mathbf{x}+\mathbf{y}$
Sue: $\quad \underline{y}$
total 1000

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5. Bill and Sue earned a total of $\$ 1000$. If Sue earned $\$ 25$ more than 4 times the amount earned by Tom, then how much did each person earn?

Bill: $\quad x$

$$
x+y=1000
$$

Sue: $\quad \underline{y}$
total 1000

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$$
x+y=1000
$$

Sue: $\underline{\underline{y}}$
total 1000

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Bill: x
Sue: $\quad \mathrm{y} \quad \mathrm{y}=$

$$
x+y=1000
$$

$$
\mathbf{y}=
$$

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5. Bill and Sue earned a total of $\$ 1000$. If Sue earned $\$ 25$ more than 4 times the amount earned by Tom, then how much did each person earn?

Bill: x
Sue: $\quad \mathrm{y}$

$$
x+y=1000
$$

total 1000

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5. Bill and Sue earned a total of $\mathbf{\$ 1 0 0 0}$. If Sue earned $\$ 25$ more than 4 times the amount earned by Tom, then how much did each person earn?

Bill: x
Sue: $\quad \mathrm{y}$
total 1000

$$
\begin{aligned}
& x+y=1000 \\
& y=4 x+25
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
5. Bill and Sue earned a total of $\$ 1000$. If Sue earned $\$ 25$ more than 4 times the amount earned by Tom, then how much did each person earn?

Bill: x
Sue: $\quad \mathrm{y}$

$$
x+y=1000
$$

$$
y=4 x+25
$$

total 1000

$$
\mathbf{x}+
$$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
5. Bill and Sue earned a total of $\$ 1000$. If Sue earned $\$ 25$ more than 4 times the amount earned by Tom, then how much did each person earn?

Bill: x
Sue: $\quad \mathrm{y}$

$$
x+y=1000
$$

total 1000

$$
x+(4 x+25)
$$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
5. Bill and Sue earned a total of $\$ 1000$. If Sue earned $\$ 25$ more than 4 times the amount earned by Tom, then how much did each person earn?

Bill: x
Sue: $\quad \mathrm{y}$

$$
x+y=1000
$$

total 1000

$$
x+(4 x+25)=1000
$$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
5. Bill and Sue earned a total of $\$ 1000$. If Sue earned $\$ 25$ more than 4 times the amount earned by Tom, then how much did each person earn?

Bill: $\quad x$
Sue: $\quad \mathrm{y}$

$$
x+y=1000
$$

$$
y=4 x+25
$$

total 1000

$$
\begin{aligned}
& x+(4 x+25)=1000 \\
& 5 x
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
5. Bill and Sue earned a total of $\$ 1000$. If Sue earned $\$ 25$ more than 4 times the amount earned by Tom, then how much did each person earn?

Bill: $\quad x$
Sue: $\quad \mathrm{y}$

$$
x+y=1000
$$

total 1000

$$
\begin{aligned}
& x+(4 x+25)=1000 \\
& 5 x+25
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
5. Bill and Sue earned a total of $\$ 1000$. If Sue earned $\$ 25$ more than 4 times the amount earned by Tom, then how much did each person earn?

Bill: $\quad x$
Sue: $\quad \mathrm{y}$

$$
x+y=1000
$$

$$
y=4 x+25
$$

total 1000

$$
\begin{gathered}
x+(4 x+25)=1000 \\
5 x+25=1000
\end{gathered}
$$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
5. Bill and Sue earned a total of $\$ 1000$. If Sue earned $\$ 25$ more than 4 times the amount earned by Tom, then how much did each person earn?

Bill: $\quad x$
Sue: $\quad \mathrm{y}$

$$
x+y=1000
$$

$$
y=4 x+25
$$

total 1000

$$
\begin{gathered}
x+(4 x+25)=1000 \\
5 x+25=1000 \\
5 x
\end{gathered}
$$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
5. Bill and Sue earned a total of $\$ 1000$. If Sue earned $\$ 25$ more than 4 times the amount earned by Tom, then how much did each person earn?

Bill: $\quad x$
Sue: $\quad \mathrm{y}$

$$
x+y=1000
$$

$$
y=4 x+25
$$

total 1000

$$
\begin{gathered}
x+(4 x+25)=1000 \\
5 x+25=1000 \\
5 x=975
\end{gathered}
$$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
5. Bill and Sue earned a total of $\$ 1000$. If Sue earned $\$ 25$ more than 4 times the amount earned by Tom, then how much did each person earn?

Bill: $\quad \mathbf{x}$

$$
x+y=1000
$$

Sue: $\quad \mathrm{y}$

$$
y=4 x+25
$$

total 1000

$$
\begin{gathered}
x+(4 x+25)=1000 \\
5 x+25=1000 \\
5 x=\mathbf{9 7 5} \\
x=195
\end{gathered}
$$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
5. Bill and Sue earned a total of $\$ 1000$. If Sue earned $\$ 25$ more than 4 times the amount earned by Tom, then how much did each person earn?

Bill: $\quad \mathbf{x}$

$$
x+y=1000
$$

Sue: $\quad \mathrm{y}$

$$
y=4 x+25
$$

total 1000

$$
\begin{gathered}
x+(4 x+25)=1000 \\
5 x+25=1000 \\
5 x=\mathbf{9 7 5} \\
x=195
\end{gathered}
$$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
5. Bill and Sue earned a total of $\$ 1000$. If Sue earned $\$ 25$ more than 4 times the amount earned by Tom, then how much did each person earn?

Bill: $\quad \mathbf{x}$

$$
x+y=1000
$$

Sue: $\quad \mathrm{y}$

$$
y=4 x+25
$$

total 1000

$$
\begin{gathered}
x+(4 x+25)=1000 \\
5 x+25=1000 \\
5 x=\mathbf{9 7 5} \\
x=195
\end{gathered}
$$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
5. Bill and Sue earned a total of $\$ 1000$. If Sue earned $\$ 25$ more than 4 times the amount earned by Tom, then how much did each person earn?

Bill: $\quad \mathbf{x}$

$$
x+y=1000
$$

Sue: $\quad \mathrm{y}$

$$
y=4 x+25
$$

total 1000

$$
\begin{gathered}
x+(4 x+25)=1000 \\
5 x+25=1000 \\
5 x=\mathbf{9 7 5} \\
x=195
\end{gathered}
$$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
5. Bill and Sue earned a total of $\$ 1000$. If Sue earned $\$ 25$ more than 4 times the amount earned by Tom, then how much did each person earn?

Bill: $\quad \mathbf{x}$
Sue: $\quad \mathrm{y}$
$\qquad$
total 1000

$$
\begin{aligned}
& x+y=1000 \\
& y=\mathbf{4} x+\mathbf{2 5}
\end{aligned}
$$

$$
\begin{gathered}
x+(4 x+25)=1000 \\
5 x+25=1000 \\
5 x=\mathbf{9 7 5} \\
x=195
\end{gathered}
$$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
5. Bill and Sue earned a total of $\$ 1000$. If Sue earned $\$ 25$ more than 4 times the amount earned by Tom, then how much did each person earn?

Bill: $\quad x$
Sue: $\quad \mathrm{y}$
$\qquad$
total 1000

$$
\begin{aligned}
& x+y=1000 \\
& y=\mathbf{4} x+\mathbf{2 5}
\end{aligned}
$$

$$
\begin{array}{cc}
x+(4 x+25)=1000 & y=4 x+25 \\
5 x+25=1000 & y=4(195)+25 \\
5 x=975 & y=805 \\
x=195 & \text { Bill earned } \$ 195, \text { and } \\
& \text { Sue earned } \$ 805 .
\end{array}
$$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
6. Coffee worth $\$ 1.50$ per pound is mixed with coffee worth $\$ 1.80$ per pound to produce a 50 pound blend worth $\$ 1.59$ per pound. How many pounds of each type of coffee is used?

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
6. Coffee worth $\$ 1.50$ per pound is mixed with coffee worth $\$ 1.80$ per pound to produce a 50 pound blend worth $\$ 1.59$ per pound. How many pounds of each type of coffee is used?
brand $A$ :
brand B:

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
6. Coffee worth $\$ 1.50$ per pound is mixed with coffee worth $\$ 1.80$ per pound to produce a 50 pound blend worth $\$ 1.59$ per pound. How many pounds of each type of coffee is used?

number<br>of pounds

brand $A$ :
brand B:

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
6. Coffee worth $\$ 1.50$ per pound is mixed with coffee worth $\$ 1.80$ per pound to produce a 50 pound blend worth $\$ 1.59$ per pound. How many pounds of each type of coffee is used?

number<br>of pounds

brand A: x
brand B: y

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
6. Coffee worth $\$ 1.50$ per pound is mixed with coffee worth $\$ 1.80$ per pound to produce a 50 pound blend worth $\$ 1.59$ per pound. How many pounds of each type of coffee is used?

number<br>of pounds

brand A: $x$
brand B: y

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
6. Coffee worth $\$ 1.50$ per pound is mixed with coffee worth $\$ 1.80$ per pound to produce a 50 pound blend worth $\$ 1.59$ per pound. How many pounds of each type of coffee is used?
number
of pounds
brand A: $x$
brand B: y
mixture:

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
6. Coffee worth $\$ 1.50$ per pound is mixed with coffee worth $\$ 1.80$ per pound to produce a 50 pound blend worth $\$ 1.59$ per pound. How many pounds of each type of coffee is used?

number<br>of pounds

brand A: x
brand B: y
mixture: 50

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
6. Coffee worth $\$ 1.50$ per pound is mixed with coffee worth $\$ 1.80$ per pound to produce a 50 pound blend worth $\$ 1.59$ per pound. How many pounds of each type of coffee is used?
number

$$
x+y
$$

brand A: x
brand B: y
mixture: 50

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
6. Coffee worth $\$ 1.50$ per pound is mixed with coffee worth $\$ 1.80$ per pound to produce a 50 pound blend worth $\$ 1.59$ per pound. How many pounds of each type of coffee is used?
number
of pounds
brand A: x
brand B: y
mixture: 50

$$
\mathbf{x}+\mathbf{y}=\mathbf{5 0}
$$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
6. Coffee worth $\$ 1.50$ per pound is mixed with coffee worth $\$ 1.80$ per pound to produce a 50 pound blend worth $\$ 1.59$ per pound. How many pounds of each type of coffee is used?
number
of pounds
brand A: $x$
brand B: y
mixture: 50

$$
\mathbf{x}+\mathbf{y}=\mathbf{5 0}
$$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
6. Coffee worth $\$ 1.50$ per pound is mixed with coffee worth $\$ 1.80$ per pound to produce a 50 pound blend worth $\$ 1.59$ per pound. How many pounds of each type of coffee is used?
number value per
of pounds pound
brand A: x
brand B: y
mixture: 50

$$
\mathbf{x}+\mathbf{y}=\mathbf{5 0}
$$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
6. Coffee worth $\$ 1.50$ per pound is mixed with coffee worth $\$ 1.80$ per pound to produce a 50 pound blend worth $\$ 1.59$ per pound. How many pounds of each type of coffee is used?
number value per

$$
\mathbf{x}+\mathbf{y}=\mathbf{5 0}
$$

of pounds pound
brand A: x 150c
brand B: y
mixture: 50

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
6. Coffee worth $\$ 1.50$ per pound is mixed with coffee worth $\$ 1.80$ per pound to produce a 50 pound blend worth $\$ 1.59$ per pound. How many pounds of each type of coffee is used?
number value per
of pounds pound
brand A: x 150c
brand B: y 180c
mixture: 50

$$
\mathbf{x}+\mathbf{y}=\mathbf{5 0}
$$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
6. Coffee worth $\$ 1.50$ per pound is mixed with coffee worth $\$ 1.80$ per pound to produce a 50 pound blend worth $\$ 1.59$ per pound. How many pounds of each type of coffee is used?
number value per

$$
\mathbf{x}+\mathbf{y}=\mathbf{5 0}
$$

of pounds pound
brand A: x 150c
brand B: y 180c
mixture: 50

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
6. Coffee worth $\$ 1.50$ per pound is mixed with coffee worth $\$ 1.80$ per pound to produce a 50 pound blend worth $\$ 1.59$ per pound. How many pounds of each type of coffee is used?
number value per
of pounds pound
brand A: x 150c
brand B: y 180c
mixture: 50 159风

$$
\mathbf{x}+\mathbf{y}=\mathbf{5 0}
$$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
6. Coffee worth $\$ 1.50$ per pound is mixed with coffee worth $\$ 1.80$ per pound to produce a 50 pound blend worth $\$ 1.59$ per pound. How many pounds of each type of coffee is used?
number value per
of pounds pound
brand A: x 150c
brand B: y 180c
mixture: 50 159¢

$$
\mathbf{x}+\mathbf{y}=\mathbf{5 0}
$$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
6. Coffee worth $\$ 1.50$ per pound is mixed with coffee worth $\$ 1.80$ per pound to produce a 50 pound blend worth $\$ 1.59$ per pound. How many pounds of each type of coffee is used?

|  | number value per <br> of pounds | pound <br> total <br> value | $\mathbf{x}+\mathbf{y}=\mathbf{5 0}$ |
| :--- | :--- | :--- | :--- |
| brand A: $\mathbf{x}$ | $\mathbf{1 5 0} \boldsymbol{c}$ |  |  |

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
6. Coffee worth $\$ 1.50$ per pound is mixed with coffee worth $\$ 1.80$ per pound to produce a 50 pound blend worth $\$ 1.59$ per pound. How many pounds of each type of coffee is used?

| $\begin{aligned} & \text { numbe } \\ & \text { of pound } \end{aligned}$ | value per pound | $\begin{aligned} & \text { total } \\ & \text { value } \end{aligned}$ | $\mathbf{x}+\mathbf{y}=50$ |
| :---: | :---: | :---: | :---: |
| brand A: x | 150¢ | 150xc |  |
| brand B: y | 180¢ |  |  |
| mixture: 50 | 159¢ |  |  |

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
6. Coffee worth $\$ 1.50$ per pound is mixed with coffee worth $\$ 1.80$ per pound to produce a 50 pound blend worth $\$ 1.59$ per pound. How many pounds of each type of coffee is used?

| numbe of poun | value per pound | $\begin{aligned} & \text { total } \\ & \text { value } \end{aligned}$ | $x+y=50$ |
| :---: | :---: | :---: | :---: |
| brand A: x | 150¢ | 150xc |  |
| brand B: y | 180¢ | 180yc |  |
| mixture: 50 | 159¢ |  |  |

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
6. Coffee worth $\$ 1.50$ per pound is mixed with coffee worth $\$ 1.80$ per pound to produce a 50 pound blend worth $\$ 1.59$ per pound. How many pounds of each type of coffee is used?

| numbe | value per pound | $\begin{aligned} & \text { total } \\ & \text { value } \end{aligned}$ | $\mathbf{x}+\mathbf{y}=50$ |
| :---: | :---: | :---: | :---: |
| brand A: x | 150¢ | 150xc |  |
| brand B: y | 180¢ | 180yc |  |
| mixture: 50 | 159¢ | 7950¢ |  |

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
6. Coffee worth $\$ 1.50$ per pound is mixed with coffee worth $\$ 1.80$ per pound to produce a 50 pound blend worth $\$ 1.59$ per pound. How many pounds of each type of coffee is used?

| number | value per | total value | $x+y=50$ |
| :---: | :---: | :---: | :---: |
| brand A: x | 150¢ | 150xc |  |
| brand B: y | 180¢ | 180yc |  |
| mixture: 50 | 159¢ | 7950¢ |  |

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
6. Coffee worth $\$ 1.50$ per pound is mixed with coffee worth $\$ 1.80$ per pound to produce a 50 pound blend worth $\$ 1.59$ per pound. How many pounds of each type of coffee is used?

| number value per <br> of pounds | total <br> pound | $x+y=50$ <br> value | $\mathbf{1 5 0 x}+\mathbf{1 8 0 y}=\mathbf{7 9 5 0}$ |
| :--- | :--- | :--- | :--- |
| brand A: $\mathbf{x}$ | $\mathbf{1 5 0 ¢}$ | $\mathbf{1 5 0 x}$ |  |
| brand B: | $\mathbf{y}$ | $\mathbf{1 8 0 ¢}$ | $\mathbf{1 8 0 y c}$ |

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
6. Coffee worth $\$ 1.50$ per pound is mixed with coffee worth $\$ 1.80$ per pound to produce a 50 pound blend worth $\$ 1.59$ per pound. How many pounds of each type of coffee is used?

| number of pound | $\begin{aligned} & \text { value per } \\ & \text { pound } \end{aligned}$ | $\begin{gathered} \text { total } \\ \text { value } \end{gathered}$ | $\mathbf{x}+\mathbf{y}=\mathbf{5 0}$ |
| :---: | :---: | :---: | :---: |
| brand A: x | 150¢ | 150xc | $[150 x+180 y=7950$ |
| brand B: y | 180¢ | 180y ${ }^{\text {c }}$ |  |
| mixture: 50 | 159¢ | 7950¢ |  |

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
6. Coffee worth $\$ 1.50$ per pound is mixed with coffee worth $\$ 1.80$ per pound to produce a 50 pound blend worth $\$ 1.59$ per pound. How many pounds of each type of coffee is used?

| $\begin{gathered} \text { number } \\ \text { of pounds } \end{gathered}$ | value per pound | $\begin{aligned} & \text { total } \\ & \text { value } \end{aligned}$ | $\begin{gathered} x+y=50 \\ 150 x+180 y=7950 \end{gathered}$ |
| :---: | :---: | :---: | :---: |
| brand A: x | 150¢ | 150xc | $150 x+180 y=7950$ |
| brand B: y | 180¢ | 180yc | 15 |
| mixture: 50 | 159¢ | 7950¢ |  |

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
6. Coffee worth $\$ 1.50$ per pound is mixed with coffee worth $\$ 1.80$ per pound to produce a 50 pound blend worth $\$ 1.59$ per pound. How many pounds of each type of coffee is used?

| $\begin{gathered} \text { number } \\ \text { of pound } \end{gathered}$ | $\begin{aligned} & \text { value per } \\ & \text { pound } \end{aligned}$ | $\begin{aligned} & \text { total } \\ & \text { value } \end{aligned}$ | $\mathbf{x}+\mathbf{y}=\mathbf{5 0}$ |
| :---: | :---: | :---: | :---: |
| brand A: $x$ | 150¢ | 150xc | $[150 x+180 y=7950$ |
| brand B: y | 180¢ | 180yc | $\longrightarrow 15 \mathrm{x}+18 \mathrm{y}$ |
| mixture: 50 | 159¢ | 7950¢ |  |

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
6. Coffee worth $\$ 1.50$ per pound is mixed with coffee worth $\$ 1.80$ per pound to produce a 50 pound blend worth $\$ 1.59$ per pound. How many pounds of each type of coffee is used?

| $\begin{gathered} \text { number } \\ \text { of pound } \end{gathered}$ | $\begin{aligned} & \text { value per } \\ & \text { pound } \end{aligned}$ | $\begin{aligned} & \text { total } \\ & \text { value } \end{aligned}$ | $\mathbf{x}+\mathbf{y}=\mathbf{5 0}$ |
| :---: | :---: | :---: | :---: |
| brand A: x | 150¢ | 150xc | $[150 x+180 y=7950$ |
| brand B: y | 180¢ | 180yc | $15 x+18 y=795$ |
| mixture: 50 | 159¢ | 7950¢ |  |

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
6. Coffee worth $\$ 1.50$ per pound is mixed with coffee worth $\$ 1.80$ per pound to produce a 50 pound blend worth $\$ 1.59$ per pound. How many pounds of each type of coffee is used?

| number of pound | value per | $\text { total } \begin{gathered} \text { value } \end{gathered}$ | $x+y=50$ |
| :---: | :---: | :---: | :---: |
| brand A: x | 150¢ | 150xc |  |
| brand B: y | 180¢ | 180yc | $15 \mathrm{x}+18 \mathrm{y}=795$ |
| mixture: 50 | 159¢ | 7950¢ |  |

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
6. Coffee worth $\$ 1.50$ per pound is mixed with coffee worth $\$ 1.80$ per pound to produce a 50 pound blend worth $\$ 1.59$ per pound. How many pounds of each type of coffee is used?

| number value per of pounds pound |  | $\begin{gathered} \text { total } \\ \text { value } \end{gathered}$ | -15 $\mathbf{1 5 0}+\mathrm{y}+180 \mathrm{y}$ |
| :---: | :---: | :---: | :---: |
| brand A: x | 150¢ | 150xc | $150 x+180 y=$ |
| and B: y | 180¢ | 180y | $15 x+18 y=795$ |
| ixture: 50 | 159¢ | 7950¢ |  |

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
6. Coffee worth $\$ 1.50$ per pound is mixed with coffee worth $\$ 1.80$ per pound to produce a 50 pound blend worth $\$ 1.59$ per pound. How many pounds of each type of coffee is used?

| number | value per | $\begin{aligned} & \text { total } \\ & \text { value } \end{aligned}$ | ${ }^{-15} x+y=50$ |
| :---: | :---: | :---: | :---: |
| brand A: x | 150¢ | 150xc |  |
| brand B: y | 180¢ | 180yc | $\begin{aligned} & 15 x+18 y=795 \\ & -15 x \end{aligned}$ |
| mixture: 50 | 159¢ | 7950¢ |  |

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
6. Coffee worth $\$ 1.50$ per pound is mixed with coffee worth $\$ 1.80$ per pound to produce a 50 pound blend worth $\$ 1.59$ per pound. How many pounds of each type of coffee is used?

| number | value per | $\begin{aligned} & \text { total } \\ & \text { value } \end{aligned}$ | ${ }^{-15} x+y=50$ |
| :---: | :---: | :---: | :---: |
| brand A: x | 150¢ | 150xc |  |
| brand B: y | 180¢ | 180yc | $\begin{aligned} & 15 x+18 y=795 \\ \rightarrow & -15 x-15 y \end{aligned}$ |
| mixture: 50 | 159¢ | 7950¢ |  |

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
6. Coffee worth $\$ 1.50$ per pound is mixed with coffee worth $\$ 1.80$ per pound to produce a 50 pound blend worth $\$ 1.59$ per pound. How many pounds of each type of coffee is used?

| number | value per | vatul | ${ }^{-15} x+y=50$ |
| :---: | :---: | :---: | :---: |
| brand A: x | 150¢ | 150x¢ | 50x $+180 y=$ |
| brand B: y | 180¢ | 180y | $15 \mathrm{x}+18 \mathrm{y}=795$ |
| mixture: 50 | 159¢ | 7950¢ |  |

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
6. Coffee worth $\$ 1.50$ per pound is mixed with coffee worth $\$ 1.80$ per pound to produce a 50 pound blend worth $\$ 1.59$ per pound. How many pounds of each type of coffee is used?

| num | $\begin{aligned} & \text { value per } \\ & \text { pound } \end{aligned}$ | $\begin{aligned} & \text { total } \\ & \text { value } \end{aligned}$ |
| :---: | :---: | :---: |
| brand A: x | $150 ¢$ | 150x¢ |
| brand B: y | 180¢ | 180yc |
| mixture: 50 | 159¢ | 7950 C |

$$
\begin{gathered}
x+y=50 \\
150 x+180 y=7950 \\
15 x+18 y=795 \\
-15 x-15 y=-750
\end{gathered}
$$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
6. Coffee worth $\$ 1.50$ per pound is mixed with coffee worth $\$ 1.80$ per pound to produce a 50 pound blend worth $\$ 1.59$ per pound. How many pounds of each type of coffee is used?

| of pom | value per pound | $\begin{aligned} & \text { total } \\ & \text { value } \end{aligned}$ |
| :---: | :---: | :---: |
| brand A: x | 150¢ | 150xc |
| brand B: y | 180¢ | 180y¢ |
| mixture: 50 | 159¢ | 7950¢ |

$$
\begin{gathered}
x+y=50 \\
150 x+180 y=7950 \\
15 x+18 y=795 \\
-15 x-15 y=-750
\end{gathered}
$$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
6. Coffee worth $\$ 1.50$ per pound is mixed with coffee worth $\$ 1.80$ per pound to produce a 50 pound blend worth $\$ 1.59$ per pound. How many pounds of each type of coffee is used?

|  | $\begin{array}{l}\text { number value per } \\ \text { of pounds }\end{array}$ | $\begin{array}{c}\text { total } \\ \text { vound }\end{array}$ | $\mathbf{x}+\mathbf{y}=\mathbf{5 0}$ |
| :--- | :--- | :--- | :--- |
| value |  |  |  |$)$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
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| number of pound | value per pound | $\text { total } \text { value }$ | $\mathbf{x}+\mathbf{y}=\mathbf{5 0}$ |
| :---: | :---: | :---: | :---: |
| brand A: x | 150¢ | 150xc |  |
| brand B: y | 180¢ | 180y | $\begin{aligned} 15 x+18 y & =795 \\ -15 x-15 y & =-750 \end{aligned}$ |
| mixture: 50 | 159¢ | 7950¢ | $3 \mathrm{y}=45$ |

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
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| number of pounds | value per pound | total | $x+y=50$ |
| :---: | :---: | :---: | :---: |
| brand A: x | 150¢ | 150xc | 15 |
| brand B: y | 180¢ | 180yc | $15 x+18 y=795$ |
| mixture: 50 | 159¢ | 7950 $¢$ | $3 y=45$ |
|  |  |  | $y=15$ |

## Algebra I Class Worksheet \#4 Unit 9

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| number of pounds | value per | total | $x+y=50$ |
| :---: | :---: | :---: | :---: |
| brand A: x | 150 c | 150xc | $150 x+180 y=7950$ |
| brand B: y | 180¢ | 180yc | $15 x+18 y=795$ |
|  |  |  | $-15 x-15 y=-750$ |
| mixture: 50 | 159¢ | 7950¢ | $3 \mathrm{y}=45$ |
|  |  |  | $y=15$ |
|  |  |  | $x+y=50$ |

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
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| number value per of pounds pound |  | $\begin{aligned} & \text { total } \\ & \text { value } \end{aligned}$ |
| :---: | :---: | :---: |
| brand A: x | 150¢ | 150xc |
| brand B: y | 180¢ | 180 yc |
| mixture: 50 | 159¢ | 7950¢ |

$$
\begin{array}{r}
x+y=50 \\
150 x+180 y=7950 \\
\mathbf{1 5 x}+\mathbf{1 8 y}=\mathbf{7 9 5} \\
\mathbf{- 1 5 x}-\mathbf{1 5 y}=\mathbf{- 7 5 0} \\
\hline \mathbf{3 y}=\mathbf{4 5} \\
\mathbf{y}=\mathbf{1 5} \\
\mathbf{x}+\mathbf{y}=\mathbf{5 0} \\
\mathbf{x}+\mathbf{1 5}=\mathbf{5 0}
\end{array}
$$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
6. Coffee worth $\$ 1.50$ per pound is mixed with coffee worth $\$ 1.80$ per pound to produce a 50 pound blend worth $\$ 1.59$ per pound. How many pounds of each type of coffee is used?

| $\begin{aligned} & \text { numb } \\ & \text { of pou } \end{aligned}$ | value per pound | total value |
| :---: | :---: | :---: |
| brand A: x | 150¢ | 150xc |
| brand B: y | 180¢ | 180 yc |
| mixture: 50 | 159¢ | 7950¢ |

$$
\begin{gathered}
x+y=50 \\
150 x+180 y=7950 \\
\mathbf{1 5 x}+\mathbf{1 8 y}=\mathbf{7 9 5} \\
\mathbf{- 1 5 x}-\mathbf{1 5 y}=\mathbf{- 7 5 0} \\
\hline \mathbf{3 y}=\mathbf{4 5} \\
\mathbf{y}=\mathbf{1 5} \\
\mathbf{x}+\mathbf{y}=\mathbf{5 0} \\
\mathbf{x}+\mathbf{1 5}=\mathbf{5 0} \\
\mathbf{x}=\mathbf{3 5}
\end{gathered}
$$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
6. Coffee worth $\$ 1.50$ per pound is mixed with coffee worth $\$ 1.80$ per pound to produce a 50 pound blend worth $\$ 1.59$ per pound. How many pounds of each type of coffee is used?

| (e) $\begin{gathered}\text { numbe } \\ \text { of poun }\end{gathered}$ | value per pound | total <br> value | $150 x+180 y=7950$ |
| :---: | :---: | :---: | :---: |
| brand A: x | 150¢ | 150xc |  |
| brand B: y | 180¢ | 180yc | $\begin{aligned} 15 x+18 y & =795 \\ -15 x-15 y & =-750 \end{aligned}$ |
| mixture: 50 | 159¢ | 7950¢ | $3 \mathrm{y}=45$ |
| Use 35 pounds @ and 15 pounds @ |  | $\begin{aligned} & 1.50 \text { per } \\ & 180 \text { ne } \end{aligned}$ | $y=15$ <br> d. $\quad x+y=50$ |
|  |  |  | $x+15=50$ |
|  |  |  | $\mathrm{x}=35$ |

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
7. $\$ 200$ is to be divided between two people so that one receives $\$ 25$ less than four times what the other receives. How much will each person receive?

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
7. $\$ 200$ is to be divided between two people so that one receives $\$ 25$ less than four times what the other receives. How much will each person receive?

First person:
Second person:

## Algebra I Class Worksheet \#4 Unit 9

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First person: x
Second person: y

## Algebra I Class Worksheet \#4 Unit 9

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First person: x
Second person: y

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7. $\$ 200$ is to be divided between two people so that one receives $\$ 25$ less than four times what the other receives. How much will each person receive?

First person: x
Second person: y
total

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
7. $\$ 200$ is to be divided between two people so that one receives $\$ 25$ less than four times what the other receives. How much will each person receive?

First person: x
Second person: y
total 200

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
7. $\$ 200$ is to be divided between two people so that one receives $\$ 25$ less than four times what the other receives. How much will each person receive?

$$
\mathbf{x}+\mathbf{y}
$$

First person: x
Second person: y
total 200

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
7. $\$ 200$ is to be divided between two people so that one receives $\$ 25$ less than four times what the other receives. How much will each person receive?

$$
x+y=200
$$

First person: x
Second person: y
total 200

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
7. $\$ 200$ is to be divided between two people so that one receives
$\$ 25$ less than four times what the other receives. How much will each person receive?

$$
x+y=200
$$

First person: x
Second person: y
total 200

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
7. $\$ 200$ is to be divided between two people so that one receives
$\$ 25$ less than four times what the other receives. How much will each person receive?

$$
\begin{aligned}
& x+y=200 \\
& y=
\end{aligned}
$$

Second person: y
total 200

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
7. $\$ 200$ is to be divided between two people so that one receives
$\$ 25$ less than four times what the other receives. How much will each person receive?

$$
\begin{aligned}
& x+y=200 \\
& y=4 x-25
\end{aligned}
$$

Second person: y
total 200

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
7. $\$ 200$ is to be divided between two people so that one receives $\$ 25$ less than four times what the other receives. How much will each person receive?

First person: x
Second person: y
total 200

$$
\begin{aligned}
& x+y=200 \\
& y=4 x-25
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 9

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$$
\begin{aligned}
& x+y=200 \\
& y=4 x-25
\end{aligned}
$$

Second person: y
total $200 \quad \mathbf{x}+$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
7. $\$ 200$ is to be divided between two people so that one receives $\$ 25$ less than four times what the other receives. How much will each person receive?

$$
x+y=200
$$

First person: x
Second person: y

$$
\text { total } \quad \overline{200} \quad x+(4 x-25)
$$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
7. $\$ 200$ is to be divided between two people so that one receives $\$ 25$ less than four times what the other receives. How much will each person receive?

$$
\mathbf{x}+\mathbf{y}=\mathbf{2 0 0}
$$

First person: x
Second person: y
total $\overline{200} \quad x+(4 x-25)=200$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
7. $\$ 200$ is to be divided between two people so that one receives $\$ 25$ less than four times what the other receives. How much will each person receive?

$$
\mathbf{x}+\mathbf{y}=\mathbf{2 0 0}
$$

First person: x
Second person: y
total 200

$$
\begin{aligned}
& x+(4 x-25)=200 \\
& 5 x
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
7. $\$ 200$ is to be divided between two people so that one receives $\$ 25$ less than four times what the other receives. How much will each person receive?

$$
\mathbf{x}+\mathbf{y}=\mathbf{2 0 0}
$$

First person: x
Second person: y
total 200

$$
\begin{aligned}
& x+(4 x-25)=200 \\
& 5 x-25
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 9

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7. $\$ 200$ is to be divided between two people so that one receives $\$ 25$ less than four times what the other receives. How much will each person receive?

$$
\mathbf{x}+\mathbf{y}=\mathbf{2 0 0}
$$

First person: x
Second person: y
total 200

$$
\begin{gathered}
x+(4 x-25)=200 \\
5 x-25=200
\end{gathered}
$$

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7. $\$ 200$ is to be divided between two people so that one receives $\$ 25$ less than four times what the other receives. How much will each person receive?

$$
\mathbf{x}+\mathbf{y}=\mathbf{2 0 0}
$$

First person: x
Second person: y
total 200

$$
\begin{gathered}
x+(4 x-25)=200 \\
5 x-25=200 \\
5 x
\end{gathered}
$$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
7. $\$ 200$ is to be divided between two people so that one receives $\$ 25$ less than four times what the other receives. How much will each person receive?

$$
\mathbf{x}+\mathbf{y}=\mathbf{2 0 0}
$$

First person: x
Second person: y
total 200

$$
\begin{gathered}
x+(\mathbf{4} x-25)=\mathbf{2 0 0} \\
\mathbf{5 x}-\mathbf{2 5}=\mathbf{2 0 0} \\
\mathbf{5 x}=\mathbf{2 2 5}
\end{gathered}
$$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
7. $\$ 200$ is to be divided between two people so that one receives $\$ 25$ less than four times what the other receives. How much will each person receive?

$$
\mathbf{x}+\mathbf{y}=\mathbf{2 0 0}
$$

First person: x
Second person: y
total 200

$$
\begin{gathered}
x+(4 x-25)=200 \\
5 x-25=200 \\
5 x=225 \\
x=45
\end{gathered}
$$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
7. $\$ 200$ is to be divided between two people so that one receives $\$ 25$ less than four times what the other receives. How much will each person receive?

$$
\mathbf{x}+\mathbf{y}=\mathbf{2 0 0}
$$

First person: x
Second person: y

$$
\begin{array}{cc}
\text { total } \quad \overline{200} \quad \begin{array}{c}
x+(4 x-25)=200 \\
5 x-25=200 \\
5 x=225 \\
\\
\\
\\
\\
\\
\\
\\
\\
\\
\end{array}=45
\end{array}
$$

## Algebra I Class Worksheet \#4 Unit 9

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$$
\mathbf{x}+\mathbf{y}=\mathbf{2 0 0}
$$

First person: x
Second person: y

$$
\text { total } \quad \overline{200} \quad \begin{array}{cc}
x+(4 x-25)=200 & y=4 x-25 \\
5 x-25=200 & y= \\
5 x=225 & \\
& x=45
\end{array}
$$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
7. $\$ 200$ is to be divided between two people so that one receives $\$ 25$ less than four times what the other receives. How much will each person receive?

$$
x+y=200
$$

First person: x
Second person: y
total 200

$$
\begin{gathered}
x+(4 x-25)=200 \\
5 x-25=200 \\
5 x=225 \\
x=45
\end{gathered}
$$

$$
\begin{aligned}
& y=4 x-25 \\
& y=4(45)-25
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
7. $\$ 200$ is to be divided between two people so that one receives $\$ 25$ less than four times what the other receives. How much will each person receive?

$$
x+y=200
$$

First person: x
Second person: y

$$
\begin{array}{ccc}
\text { total } & \overline{200} & x+(4 x-25)=200 \\
& 5 x-25=200 & y=4 x-25 \\
& 5 x=225 & y=4(45)-25 \\
& x=45 & y=155
\end{array}
$$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
7. $\$ 200$ is to be divided between two people so that one receives $\$ 25$ less than four times what the other receives. How much will each person receive?

First person: x
Second person: y

$$
\begin{aligned}
& x+y=200 \\
& y=4 x-25
\end{aligned}
$$

total 200

$$
\begin{array}{cl}
x+(4 x-25)=200 & y=4 x-25 \\
5 x-25=200 & y=4(45)-25 \\
5 x=225 & y=155 \\
x=45 &
\end{array}
$$

One person received $\$ 45$, and the other received $\$ 155$.

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
8. Mary invested $\mathbf{\$ 5 0 0 0}$, part at $\mathbf{3 \%}$ per year and the rest at $\mathbf{4 \%}$ per year. If the total interest for the year was $\$ 185$, then how much was invested at each rate?

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
8. Mary invested $\mathbf{\$ 5 0 0 0}$, part at $\mathbf{3 \%}$ per year and the rest at $\mathbf{4 \%}$ per year. If the total interest for the year was $\$ 185$, then how much was invested at each rate?
first:
second:

## Algebra I Class Worksheet \#4 Unit 9

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amount
invested
first:
second:

## Algebra I Class Worksheet \#4 Unit 9

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amount
invested
first: $\mathbf{x}$
second: y

## Algebra I Class Worksheet \#4 Unit 9

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8. Mary invested $\mathbf{\$ 5 0 0 0}$, part at $\mathbf{3 \%}$ per year and the rest at $\mathbf{4 \%}$ per year. If the total interest for the year was $\$ 185$, then how much was invested at each rate?
amount
invested
first: $\mathbf{x}$
second: y

## Algebra I Class Worksheet \#4 Unit 9

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amount
invested
first: $\mathbf{x}$
second: y
total

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
8. Mary invested $\mathbf{\$ 5 0 0 0}$, part at $\mathbf{3 \%}$ per year and the rest at $\mathbf{4 \%}$ per year. If the total interest for the year was $\$ 185$, then how much was invested at each rate?

| first: $\quad$amount <br> invested |  |
| ---: | :--- |
| second: | $\mathbf{y}$ |
| total | $\$ 5000$ |

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
8. Mary invested $\mathbf{\$ 5 0 0 0}$, part at $\mathbf{3 \%}$ per year and the rest at $\mathbf{4 \%}$ per year. If the total interest for the year was $\$ 185$, then how much was invested at each rate?
amount

$$
x+y
$$

first: $\mathbf{x}$
second: y
total $\$ 5000$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
8. Mary invested $\mathbf{\$ 5 0 0 0}$, part at $\mathbf{3 \%}$ per year and the rest at $\mathbf{4 \%}$ per year. If the total interest for the year was $\$ 185$, then how much was invested at each rate?
amount

$$
\mathbf{x}+\mathbf{y}=\mathbf{5 0 0 0}
$$

first: $\mathbf{x}$
second: $\mathbf{y}$
total $\$ 5000$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
8. Mary invested $\mathbf{\$ 5 0 0 0}$, part at $\mathbf{3 \%}$ per year and the rest at $\mathbf{4 \%}$ per year. If the total interest for the year was $\$ 185$, then how much was invested at each rate?
amount

$$
\mathbf{x}+\mathbf{y}=\mathbf{5 0 0 0}
$$

first: $\mathbf{x}$
second: $\mathbf{y}$
total $\$ 5000$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
8. Mary invested $\mathbf{\$ 5 0 0 0}$, part at $\mathbf{3 \%}$ per year and the rest at $\mathbf{4 \%}$ per year. If the total interest for the year was $\$ 185$, then how much was invested at each rate?

amount interest

$$
\mathbf{x}+\mathbf{y}=\mathbf{5 0 0 0}
$$

first: $\mathbf{x}$
second: $\mathbf{y}$
total $\$ 5000$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
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|  | amount <br> invested | interest <br> rate |
| ---: | :---: | :---: |
| first: | interest <br> earned | $\mathbf{3 \%}$ |

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
8. Mary invested $\mathbf{\$ 5 0 0 0}$, part at $\mathbf{3 \%}$ per year and the rest at $\mathbf{4 \%}$ per year. If the total interest for the year was $\$ 185$, then how much was invested at each rate?

|  | amount <br> invested | interest <br> rate | interest <br> earned |
| :---: | :---: | :---: | :---: |
| first: | $\mathbf{x}$ | $\mathbf{3 \%}$ | $\mathbf{. 0 3 x}$ |
| second: | $\mathbf{y}$ | $\mathbf{4 \%}$ |  |
| total | $\mathbf{\$ 5 0 0 0}$ |  |  |

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
8. Mary invested $\mathbf{\$ 5 0 0 0}$, part at $\mathbf{3 \%}$ per year and the rest at $\mathbf{4 \%}$ per year. If the total interest for the year was $\$ 185$, then how much was invested at each rate?

|  | amount invested | interest rate | interes earned |
| :---: | :---: | :---: | :---: |
| first: | X | 3\% | .03x |
| second: | y | 4\% | .04y |

$$
\mathbf{x}+\mathbf{y}=\mathbf{5 0 0 0}
$$

total $\$ \mathbf{5 0 0 0}$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
8. Mary invested $\mathbf{\$ 5 0 0 0}$, part at $\mathbf{3 \%}$ per year and the rest at $\mathbf{4 \%}$ per year. If the total interest for the year was $\$ 185$, then how much was invested at each rate?

|  | $\begin{array}{r}\text { amount } \\ \text { invested }\end{array}$ |  | $\begin{array}{c}\text { interest } \\ \text { rate }\end{array}$ |
| ---: | :---: | :---: | :---: | \(\left.\begin{array}{c}interest <br>

earned\end{array}\right\}\)

## Algebra I Class Worksheet \#4 Unit 9

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8. Mary invested $\mathbf{\$ 5 0 0 0}$, part at $\mathbf{3 \%}$ per year and the rest at $\mathbf{4 \%}$ per year. If the total interest for the year was $\$ 185$, then how much was invested at each rate?

|  | amount |  |  |
| ---: | :---: | :---: | :---: |
| invested | interest <br> rate | interest <br> earned |  |
| first: | $\mathbf{x}$ | $\mathbf{3 \%}$ | $\mathbf{. 0 3 x}$ |
| second: | $\mathbf{y}$ | $\mathbf{4 \%}$ | $\underline{\mathbf{0 4 y}}$ |
| total | $\overline{\mathbf{5 5 0 0 0}}$ |  | $\underline{\mathbf{\$ 1 8 5}}$ |

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
8. Mary invested $\mathbf{\$ 5 0 0 0}$, part at $\mathbf{3 \%}$ per year and the rest at $\mathbf{4 \%}$ per year. If the total interest for the year was $\$ 185$, then how much was invested at each rate?

| amount invested | interest rate | interes earned |
| :---: | :---: | :---: |
| first: $\mathbf{x}$ | 3\% | .03x |
| second: y | 4\% | .04y |
| total \$5000 |  | \$185 |

$$
\begin{gathered}
x+y=5000 \\
.03 x+.04 y=185
\end{gathered}
$$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
8. Mary invested $\mathbf{\$ 5 0 0 0}$, part at $\mathbf{3 \%}$ per year and the rest at $\mathbf{4 \%}$ per year. If the total interest for the year was $\$ 185$, then how much was invested at each rate?

| amount invested | interest rate | interes earned |
| :---: | :---: | :---: |
| first: $\mathbf{x}$ | 3\% | .03x |
| second: $\mathbf{y}$ | 4\% | .04y |
| total \$5000 |  | \$185 |

$$
\begin{gathered}
x+y=5000 \\
.03 x+.04 y=185
\end{gathered}
$$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
8. Mary invested $\mathbf{\$ 5 0 0 0}$, part at $\mathbf{3 \%}$ per year and the rest at $\mathbf{4 \%}$ per year. If the total interest for the year was $\$ 185$, then how much was invested at each rate?

|  | amount <br> invested | interest <br> rate | interest <br> earned |
| ---: | :---: | :---: | :---: |
| first: | $\mathbf{x}$ | $\mathbf{3 \%}$ | $\mathbf{. 0 3 x}$ |
| second: | $\mathbf{y}$ | $\mathbf{4 \%}$ | $\underline{\mathbf{. 0 4 y}}$ |
| total | $\overline{\mathbf{5 0 0 0}}$ |  | $\underline{\mathbf{\$ 1 8 5}}$ |

$x+y=5000$
$100.03 x+.04 y=185$
$\longrightarrow$
\$185

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
8. Mary invested $\mathbf{\$ 5 0 0 0}$, part at $\mathbf{3 \%}$ per year and the rest at $\mathbf{4 \%}$ per year. If the total interest for the year was $\$ 185$, then how much was invested at each rate?

|  | amount <br> invested | interest <br> rate | interest <br> earned |
| ---: | :---: | :---: | :---: |
| first: | $\mathbf{x}$ | $\mathbf{3 \%}$ | $\mathbf{. 0 3 x}$ |
| second: | $\mathbf{y}$ | $\mathbf{4 \%}$ | $\underline{\mathbf{. 0 4 y}}$ |
| total | $\overline{\mathbf{5 0 0 0}}$ |  | $\underline{\mathbf{\$ 1 8 5}}$ |

$x+y=5000$
100
$\longrightarrow \mathbf{3 x}$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
8. Mary invested $\mathbf{\$ 5 0 0 0}$, part at $\mathbf{3 \%}$ per year and the rest at $\mathbf{4 \%}$ per year. If the total interest for the year was $\$ 185$, then how much was invested at each rate?

|  | amount <br> invested | interest <br> rate | interest <br> earned |
| ---: | :---: | :---: | :---: |
| first: | $\mathbf{x}$ | $\mathbf{3 \%}$ | $\mathbf{. 0 3 x}$ |
| second: | $\mathbf{y}$ | $\mathbf{4 \%}$ | $\underline{\mathbf{. 0 4 y}}$ |
| total | $\overline{\mathbf{5 0 0 0}}$ |  | $\underline{\mathbf{\$ 1 8 5}}$ |

$$
\begin{gathered}
x+y=5000 \\
100 \\
\longrightarrow \mathbf{3 x}+4 y
\end{gathered}
$$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
8. Mary invested $\mathbf{\$ 5 0 0 0}$, part at $\mathbf{3 \%}$ per year and the rest at $\mathbf{4 \%}$ per year. If the total interest for the year was $\$ 185$, then how much was invested at each rate?

| amount invested | interest rate ren | interst earned |
| :---: | :---: | :---: |
| first: | 3\% | .03x |
| second: | 4\% | .04y |
| total \$5000 |  | \$18 |

\[

\]

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
8. Mary invested $\mathbf{\$ 5 0 0 0}$, part at $\mathbf{3 \%}$ per year and the rest at $\mathbf{4 \%}$ per year. If the total interest for the year was $\$ 185$, then how much was invested at each rate?

|  | amount <br> invested | interest <br> rate | interest <br> earned |
| ---: | :---: | :---: | :---: |
| first: | $\mathbf{x}$ | $\mathbf{3 \%}$ | $\mathbf{. 0 3 x}$ |
| second: | $\mathbf{y}$ | $\mathbf{4 \%}$ | $\underline{\mathbf{. 0 4 y}}$ |
| total | $\overline{\mathbf{5 0 0 0}}$ |  | $\underline{\mathbf{\$ 1 8 5}}$ |

$$
\begin{gathered}
x+y=5000 \\
.03 x+.04 y=185 \\
3 x+4 y=18,500
\end{gathered}
$$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
8. Mary invested $\mathbf{\$ 5 0 0 0}$, part at $\mathbf{3 \%}$ per year and the rest at $\mathbf{4 \%}$ per year. If the total interest for the year was $\$ 185$, then how much was invested at each rate?

|  | interest <br> rate <br> 3\% | interest earned .03x | $\begin{gathered} x+y=5000 \\ .03 x+.04 y=185 \end{gathered}$ |
| :---: | :---: | :---: | :---: |
| first: $\mathbf{x}$ | 3\% | .03x | $3 \mathrm{x}+4 \mathrm{y}=18,500$ |
| second: y | 4\% | .04y |  |
| total \$5000 |  | \$185 |  |

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
8. Mary invested $\mathbf{\$ 5 0 0 0}$, part at $\mathbf{3 \%}$ per year and the rest at $\mathbf{4 \%}$ per year. If the total interest for the year was $\$ 185$, then how much was invested at each rate?

| first: ${ }^{\text {amount }}$ inved | interest <br> rate <br> rate | interest earned | $\begin{array}{r} -3 \\ .03 x+y=5000 \\ .03 x+.04 y=185 \end{array}$ |
| :---: | :---: | :---: | :---: |
| first: $\mathbf{x}$ | 3\% | .03x | .03x $+.04 y=185$ |
| second: y | 4\% | .04y | $\xrightarrow{ } \quad 3 x+4 y=18,500$ |
| total \$5000 |  | \$185 |  |

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
8. Mary invested $\mathbf{\$ 5 0 0 0}$, part at $\mathbf{3 \%}$ per year and the rest at $\mathbf{4 \%}$ per year. If the total interest for the year was $\$ 185$, then how much was invested at each rate?

| amoun invested | interest | interes earned |
| :---: | :---: | :---: |
| first: $\mathbf{x}$ | 3\% | .03x |
| second: y | 4\% | .04y |
| total \$5000 |  | \$185 |

$$
\begin{gathered}
x+y=5000 \\
.03 x+.04 y=185 \\
3 x+4 y=18,500 \\
\longrightarrow-3 x-3 y
\end{gathered}
$$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
8. Mary invested $\mathbf{\$ 5 0 0 0}$, part at $\mathbf{3 \%}$ per year and the rest at $\mathbf{4 \%}$ per year. If the total interest for the year was $\$ 185$, then how much was invested at each rate?

| amoun invested | interest | interes earned |
| :---: | :---: | :---: |
| first: $\mathbf{x}$ | 3\% | .03x |
| second: y | 4\% | .04y |
| tal \$5000 |  | \$185 |

$$
\begin{array}{r}
x+y=5000 \\
.03 x+.04 y=185 \\
3 x+4 y=18,500 \\
\longrightarrow-3 x-3 y=-15,000
\end{array}
$$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
8. Mary invested $\mathbf{\$ 5 0 0 0}$, part at $\mathbf{3 \%}$ per year and the rest at $\mathbf{4 \%}$ per year. If the total interest for the year was $\$ 185$, then how much was invested at each rate?

| amoun invested | interest rate ren | interest earned |
| :---: | :---: | :---: |
| first: x | 3\% | .03x |
| cond: y | 4\% | .04y |
| total \$5000 |  | 85 |

$$
\begin{gathered}
x+y=5000 \\
.03 x+.04 y=185 \\
3 x+4 y=18,500 \\
-3 x-3 y=-15,000
\end{gathered}
$$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
8. Mary invested $\mathbf{\$ 5 0 0 0}$, part at $\mathbf{3 \%}$ per year and the rest at $\mathbf{4 \%}$ per year. If the total interest for the year was $\$ 185$, then how much was invested at each rate?

| amoun invested | interest rate ren | interest earned |
| :---: | :---: | :---: |
| first: x | 3\% | .03x |
| cond: y | 4\% | .04y |
| total \$5000 |  | 85 |

$$
\begin{gathered}
x+y=5000 \\
.03 x+.04 y=185 \\
3 x+4 y=\mathbf{1 8 , 5 0 0} \\
\mathbf{- 3 x}-\mathbf{3 y}=\mathbf{- 1 5 , 0 0 0}
\end{gathered}
$$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
8. Mary invested $\mathbf{\$ 5 0 0 0}$, part at $\mathbf{3 \%}$ per year and the rest at $\mathbf{4 \%}$ per year. If the total interest for the year was $\$ 185$, then how much was invested at each rate?

| amoun invested | interest rate ate | interest earned |
| :---: | :---: | :---: |
| first: x | 3\% | .03x |
| second: | 4\% | .04y |
| tal \$5000 |  | \$185 |

$$
\begin{gathered}
x+y=5000 \\
.03 x+.04 y=185 \\
3 x+4 y=18,500 \\
-3 x-3 y=-15,000 \\
\hline y=3,500
\end{gathered}
$$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
8. Mary invested $\mathbf{\$ 5 0 0 0}$, part at $\mathbf{3 \%}$ per year and the rest at $\mathbf{4 \%}$ per year. If the total interest for the year was $\$ 185$, then how much was invested at each rate?

| amount invested | interest | interes earned |
| :---: | :---: | :---: |
| first: x | 3\% | .03x |
| second: | 4\% | .04y |
| total \$5000 |  | \$185 |

$$
\begin{gathered}
x+y=5000 \\
.03 x+.04 y=185 \\
3 x+4 y=18,500 \\
-\mathbf{3 x}-\mathbf{3 y}=\mathbf{- 1 5 , 0 0 0} \\
\hline y=\mathbf{3 , 5 0 0} \\
x+y=5000
\end{gathered}
$$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
8. Mary invested $\mathbf{\$ 5 0 0 0}$, part at $\mathbf{3 \%}$ per year and the rest at $\mathbf{4 \%}$ per year. If the total interest for the year was $\$ 185$, then how much was invested at each rate?

| amount invested | $\begin{gathered} \text { interest } \\ \text { rate } \end{gathered}$ | inters earned |
| :---: | :---: | :---: |
| first: x | 3\% | .03x |
| second: | 4\% | .04y |
| total \$5000 |  | \$185 |

$$
\begin{gathered}
x+y=5000 \\
.03 x+.04 y=185 \\
\mathbf{3 x}+4 y=\mathbf{1 8 , 5 0 0} \\
\mathbf{- 3 x}-\mathbf{3 y}=\mathbf{- 1 5 , 0 0 0} \\
\hline \mathbf{y}=\mathbf{3 , 5 0 0} \\
x+y=\mathbf{5 0 0 0} \\
x+\mathbf{3 5 0 0}=\mathbf{5 0 0 0}
\end{gathered}
$$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
8. Mary invested $\mathbf{\$ 5 0 0 0}$, part at $\mathbf{3 \%}$ per year and the rest at $\mathbf{4 \%}$ per year. If the total interest for the year was $\$ 185$, then how much was invested at each rate?

| amount invested | $\begin{gathered} \text { interest } \\ \text { rate } \end{gathered}$ | inters earned |
| :---: | :---: | :---: |
| first: x | 3\% | .03x |
| second: | 4\% | .04y |
| total \$5000 |  | \$185 |

$$
\begin{gathered}
x+y=5000 \\
.03 x+.04 y=185 \\
\mathbf{3 x}+\mathbf{4 y}=\mathbf{1 8 , 5 0 0} \\
\mathbf{- 3 x}-\mathbf{3 y}=\mathbf{- 1 5 , 0 0 0} \\
\hline \mathbf{y}=\mathbf{3 , 5 0 0} \\
x+y=\mathbf{5 0 0 0} \\
x+\mathbf{3 5 0 0}=\mathbf{5 0 0 0} \\
\mathbf{x}=\mathbf{1 5 0 0}
\end{gathered}
$$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
8. Mary invested $\mathbf{\$ 5 0 0 0}$, part at $\mathbf{3 \%}$ per year and the rest at $\mathbf{4 \%}$ per year. If the total interest for the year was $\$ 185$, then how much was invested at each rate?

| amoun invested | $\begin{gathered} \text { interest } \\ \text { rate } \end{gathered}$ | $\begin{aligned} & \text { interest } \\ & \text { earned } \end{aligned}$ |
| :---: | :---: | :---: |
| first: $\mathbf{x}$ | 3\% | .03x |
| second: y | 4\% | .04y |
| total \$5000 |  | \$185 |

$$
\begin{gathered}
x+y=5000 \\
.03 x+.04 y=185 \\
\mathbf{3 x}+\mathbf{4 y}=\mathbf{1 8 , 5 0 0} \\
\mathbf{- 3 x}-\mathbf{3 y}=\mathbf{- 1 5 , 0 0 0} \\
\hline y=\mathbf{3 , 5 0 0} \\
x+y=5000 \\
x+\mathbf{3 5 0 0}=\mathbf{5 0 0 0} \\
\mathbf{x}=\mathbf{1 5 0 0}
\end{gathered}
$$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
9. A chemist has one solution that is $35 \%$ acid and another that is $10 \%$ acid. How much of each solution should she use to make 50 cc of a solution that is $\mathbf{2 5 \%}$ acid?

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
9. A chemist has one solution that is $35 \%$ acid and another that is $\mathbf{1 0 \%}$ acid. How much of each solution should she use to make 50 cc of a solution that is $\mathbf{2 5 \%}$ acid?
first:
second:

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
9. A chemist has one solution that is $35 \%$ acid and another that is $10 \%$ acid. How much of each solution should she use to make 50 cc of a solution that is $\mathbf{2 5 \%}$ acid?

```
volume
of solution
```

first:
second:

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
9. A chemist has one solution that is $35 \%$ acid and another that is $10 \%$ acid. How much of each solution should she use to make 50 cc of a solution that is $\mathbf{2 5 \%}$ acid?
volume
of solution
first: $\mathbf{x}$
second: y

## Algebra I Class Worksheet \#4 Unit 9

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9. A chemist has one solution that is $35 \%$ acid and another that is $10 \%$ acid. How much of each solution should she use to make 50 cc of a solution that is $\mathbf{2 5 \%}$ acid?
volume
of solution
first: $\mathbf{x}$
second: y

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
9. A chemist has one solution that is $35 \%$ acid and another that is $10 \%$ acid. How much of each solution should she use to make 50 cc of a solution that is $\mathbf{2 5 \%}$ acid?
volume
of solution
first: $\mathbf{x}$
second: $\mathbf{y}$
total

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
9. A chemist has one solution that is $35 \%$ acid and another that is $10 \%$ acid. How much of each solution should she use to make 50 cc of a solution that is $\mathbf{2 5 \%}$ acid?
volume
of solution
first: $\mathbf{x}$
second: y
total 50 cc

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
9. A chemist has one solution that is $35 \%$ acid and another that is $10 \%$ acid. How much of each solution should she use to make 50 cc of a solution that is $\mathbf{2 5 \%}$ acid?

$$
\mathbf{x}+\mathbf{y}
$$

volume
of solution
first: $\mathbf{x}$
second: $\mathbf{y}$
total 50 cc

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
9. A chemist has one solution that is $35 \%$ acid and another that is $10 \%$ acid. How much of each solution should she use to make 50 cc of a solution that is $\mathbf{2 5 \%}$ acid?

$$
x+y=50
$$

volume
of solution
first: $\mathbf{x}$
second: $\mathbf{y}$
total 50 cc

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
9. A chemist has one solution that is $35 \%$ acid and another that is $10 \%$ acid. How much of each solution should she use to make 50 cc of a solution that is $\mathbf{2 5 \%}$ acid?

$$
\mathbf{x}+\mathbf{y}=\mathbf{5 0}
$$

volume
of solution
first: $\mathbf{x}$
second: $\mathbf{y}$
total 50 cc

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
9. A chemist has one solution that is $35 \%$ acid and another that is $10 \%$ acid. How much of each solution should she use to make 50 cc of a solution that is $\mathbf{2 5 \%}$ acid?

$$
\mathbf{x}+\mathbf{y}=\mathbf{5 0}
$$

volume percent of solution acid
first: $\mathbf{x}$
second: $\mathbf{y}$
total 50 cc

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
9. A chemist has one solution that is $35 \%$ acid and another that is $10 \%$ acid. How much of each solution should she use to make 50 cc of a solution that is $\mathbf{2 5 \%}$ acid?

$$
\mathbf{x}+\mathbf{y}=\mathbf{5 0}
$$

volume percent
of solution acid
first: $x \quad 35 \%$
second: $\mathbf{y}$
total 50 cc

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
9. A chemist has one solution that is $35 \%$ acid and another that is $10 \%$ acid. How much of each solution should she use to make 50 cc of a solution that is $\mathbf{2 5 \%}$ acid?

$$
\mathbf{x}+\mathbf{y}=\mathbf{5 0}
$$

volume percent of solution acid
first: $x$ 35\%
second: y 10\%
total 50 cc

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
9. A chemist has one solution that is $35 \%$ acid and another that is $10 \%$ acid. How much of each solution should she use to make 50 cc of a solution that is $\mathbf{2 5 \%}$ acid?

$$
\mathbf{x}+\mathbf{y}=\mathbf{5 0}
$$

volume percent
of solution acid
first: $x \quad 35 \%$
second: y 10\%
total 50 cc

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
9. A chemist has one solution that is $35 \%$ acid and another that is $10 \%$ acid. How much of each solution should she use to make 50 cc of a solution that is $\mathbf{2 5 \%}$ acid?

$$
x+y=50
$$

volume percent
of solution acid
first: $x \quad 35 \%$
second: y 10\%
total 50 cc 25\%

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
9. A chemist has one solution that is $35 \%$ acid and another that is $10 \%$ acid. How much of each solution should she use to make 50 cc of a solution that is $\mathbf{2 5 \%}$ acid?

$$
\mathbf{x}+\mathbf{y}=\mathbf{5 0}
$$

| volume percent | volume <br> of solution acid |
| :---: | :---: |

first: $\mathbf{x} \quad \mathbf{3 5 \%}$
second: y 10\%
total 50 cc 25\%

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
9. A chemist has one solution that is $35 \%$ acid and another that is $10 \%$ acid. How much of each solution should she use to make 50 cc of a solution that is $25 \%$ acid?

$$
\mathbf{x}+\mathbf{y}=\mathbf{5 0}
$$

volume percent volume
of solution acid of acid
first: $x$ 35\% .35x
second: y 10\%
total 50 cc 25\%

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
9. A chemist has one solution that is $35 \%$ acid and another that is $10 \%$ acid. How much of each solution should she use to make 50 cc of a solution that is $\mathbf{2 5 \%}$ acid?

$$
\mathbf{x}+\mathbf{y}=\mathbf{5 0}
$$

volume percent volume
of solution acid of acid
first: $x \quad 35 \% \quad .35 x$
second: $y$ 10\% .10y
total 50 cc 25\%

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
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$$
\mathbf{x}+\mathbf{y}=\mathbf{5 0}
$$

| volume |  |
| :---: | :---: |
| of solution | percent |
| acid |  |$\quad$| volume |
| :--- |
| of acid |

first: $x \quad 35 \% \quad .35 x$

| second: | $\frac{y}{10 \%}$ | $\underline{.10 y}$ |  |
| :--- | :--- | :--- | :--- | :--- |
| total | $\overline{50} \mathrm{cc}$ | $\mathbf{2 5 \%}$ | $\underline{12.5 \mathrm{cc}}$ |

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
9. A chemist has one solution that is $35 \%$ acid and another that is $10 \%$ acid. How much of each solution should she use to make 50 cc of a solution that is $25 \%$ acid?

$$
x+y=50
$$

volume percent volume
of solution acid of acid

$$
.35 x+.10 y
$$

first: $x$ 35\% .35x

| second: | $\frac{y}{10 \%}$ | $\underline{.10 y}$ |  |
| :--- | :--- | :--- | :--- | :--- |
| total | $\overline{50} \mathrm{cc}$ | $\mathbf{2 5 \%}$ | $\underline{12.5 \mathrm{cc}}$ |

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
9. A chemist has one solution that is $35 \%$ acid and another that is $10 \%$ acid. How much of each solution should she use to make 50 cc of a solution that is $25 \%$ acid?

$$
\begin{gathered}
x+y=50 \\
.35 x+.10 y=12.5
\end{gathered}
$$

volume percent volume of solution acid of acid
first: $x$ 35\% .35x

total $50 \mathrm{cc} 25 \% 12.5 \mathrm{cc}$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
9. A chemist has one solution that is $35 \%$ acid and another that is $10 \%$ acid. How much of each solution should she use to make 50 cc of a solution that is $\mathbf{2 5 \%}$ acid?

$$
\begin{gathered}
x+y=50 \\
.35 x+.10 y=12.5
\end{gathered}
$$

volume percent volume of solution acid of acid
first: $x$ 35\% .35x
second: y 10\% .10y
total $50 \mathrm{cc} 25 \% 12.5 \mathrm{cc}$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
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$$
\mathbf{x}+\mathbf{y}=\mathbf{5 0}
$$



## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
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$$
\mathbf{x}+\mathbf{y}=\mathbf{5 0}
$$



## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
9. A chemist has one solution that is $35 \%$ acid and another that is $10 \%$ acid. How much of each solution should she use to make 50 cc of a solution that is $\mathbf{2 5 \%}$ acid?
$x+y=50$
100
$\square$
$\longrightarrow \mathbf{3 5 x}+.10 y=12.5$

| second: | $\frac{y}{10 \%}$ | $\underline{.10 y}$ |  |
| :--- | :--- | :--- | :--- | :--- |
| total | $\overline{50} \mathrm{cc}$ | $\mathbf{2 5 \%}$ | $\underline{12.5 \mathrm{cc}}$ |

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
9. A chemist has one solution that is $35 \%$ acid and another that is $10 \%$ acid. How much of each solution should she use to make 50 cc of a solution that is $\mathbf{2 5 \%}$ acid?
$x+y=50$
100
$\square$
$\longrightarrow \mathbf{3 5 x} x+10 y=12.5$
$\longrightarrow$

| second: | $\frac{y}{10 \%}$ | $\underline{.10 y}$ |  |
| :--- | :--- | :--- | :--- | :--- |
| total | $\overline{50} \mathrm{cc}$ | $\mathbf{2 5 \%}$ | $\underline{12.5 \mathrm{cc}}$ |

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
9. A chemist has one solution that is $35 \%$ acid and another that is $10 \%$ acid. How much of each solution should she use to make 50 cc of a solution that is $25 \%$ acid?

$$
\begin{gathered}
x+y=50 \\
.35 x+.10 y=12.5 \\
\mathbf{3 5 x}+10 y=1250
\end{gathered}
$$

volume percent volume of solution acid of acid
first: $x \quad 35 \% \quad .35 x$
second: $y \quad 10 \% \quad .10 y$
total $50 \mathrm{cc} 25 \% 12.5 \mathrm{cc}$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
9. A chemist has one solution that is $35 \%$ acid and another that is $10 \%$ acid. How much of each solution should she use to make 50 cc of a solution that is $\mathbf{2 5 \%}$ acid?


## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
9. A chemist has one solution that is $35 \%$ acid and another that is $10 \%$ acid. How much of each solution should she use to make 50 cc of a solution that is $\mathbf{2 5 \%}$ acid?


## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
9. A chemist has one solution that is $35 \%$ acid and another that is $10 \%$ acid. How much of each solution should she use to make 50 cc of a solution that is $\mathbf{2 5 \%}$ acid?


## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
9. A chemist has one solution that is $35 \%$ acid and another that is $10 \%$ acid. How much of each solution should she use to make 50 cc of a solution that is $\mathbf{2 5 \%}$ acid?


## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
9. A chemist has one solution that is $35 \%$ acid and another that is $\mathbf{1 0 \%}$ acid. How much of each solution should she use to make 50 cc of a solution that is $\mathbf{2 5 \%}$ acid?

$$
\begin{gathered}
x+y=50 \\
.35 x+.10 y=12.5 \\
35 x+10 y=\mathbf{1 2 5 0} \\
\mathbf{- 1 0 x}-10 y=\mathbf{- 5 0 0}
\end{gathered}
$$

volume percent volume of solution acid of acid
first: $x$ 35\% .35x
second: y 10\% .10y
total $50 \mathrm{cc} 25 \% 12.5 \mathrm{cc}$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
9. A chemist has one solution that is $35 \%$ acid and another that is $\mathbf{1 0 \%}$ acid. How much of each solution should she use to make 50 cc of a solution that is $25 \%$ acid?
volume percent volume of solution acid of acid
first: $x$ 35\% .35x
second: y 10\% .10y
total $50 \mathrm{cc} 25 \% 12.5 \mathrm{cc}$

$$
\begin{aligned}
& x+y=50 \\
& .35 x+.10 y=12.5 \\
& 35 x+10 y=1250 \\
&-10 x-10 y=\mathbf{- 5 0 0} \\
& \hline
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
9. A chemist has one solution that is $35 \%$ acid and another that is $\mathbf{1 0 \%}$ acid. How much of each solution should she use to make 50 cc of a solution that is $\mathbf{2 5 \%}$ acid?
volume percent volume of solution acid of acid
first: $x$ 35\% .35x
second: $y$ 10\% .10y
total
50 cc 25\%
12.5 cc

$$
\begin{gathered}
x+y=50 \\
.35 x+.10 y=12.5 \\
35 x+10 y=1250 \\
-\mathbf{- 1 0 x - 1 0 y}=-500 \\
\hline 25 x
\end{gathered}
$$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
9. A chemist has one solution that is $35 \%$ acid and another that is $\mathbf{1 0 \%}$ acid. How much of each solution should she use to make 50 cc of a solution that is $\mathbf{2 5 \%}$ acid?

$$
\begin{gathered}
x+y=50 \\
.35 x+.10 y=12.5 \\
\mathbf{3 5 x}+10 y=1250 \\
-\mathbf{- 1 0 x}-10 y=-500 \\
\hline 25 x=750
\end{gathered}
$$

                volume percent volume
                of solution acid of acid
    first: \(x\) 35\% .35x
    second: y 10\% .10y
    total $50 \mathrm{cc} 25 \% \quad 12.5 \mathrm{cc}$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
9. A chemist has one solution that is $35 \%$ acid and another that is $10 \%$ acid. How much of each solution should she use to make 50 cc of a solution that is $\mathbf{2 5 \%}$ acid?

$$
\begin{aligned}
x+y & =50 \\
.35 x+.10 y & =12.5 \\
\mathbf{3 5 x}+10 y & =1250 \\
\mathbf{- 1 0 x}-10 y & =\mathbf{- 5 0 0} \\
\hline 25 x & =750 \\
x & =\mathbf{3 0}
\end{aligned}
$$

                volume percent volume
                of solution acid of acid
    first: \(x\) 35\% .35x
    second: y 10\% .10y
    total \(50 \mathrm{cc} 25 \% \quad 12.5 \mathrm{cc}\)
    
## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
9. A chemist has one solution that is $35 \%$ acid and another that is $\mathbf{1 0 \%}$ acid. How much of each solution should she use to make 50 cc of a solution that is $\mathbf{2 5 \%}$ acid?

$$
\begin{gathered}
x+y=50 \\
.35 x+.10 y=12.5 \\
\mathbf{3 5 x}+10 y=1250 \\
\mathbf{- 1 0 x - 1 0 y}=\mathbf{- 5 0 0} \\
\hline 25 x=750 \\
x=30 \\
x+y=50
\end{gathered}
$$

                volume percent volume
                of solution acid of acid
    first: $x$ 35\% .35x
second: $y$ 10\% .10y
total $50 \mathrm{cc} 25 \% \quad 12.5 \mathrm{cc}$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
9. A chemist has one solution that is $35 \%$ acid and another that is $\mathbf{1 0 \%}$ acid. How much of each solution should she use to make 50 cc of a solution that is $\mathbf{2 5 \%}$ acid?

$$
\begin{gathered}
x+y=\mathbf{5 0} \\
. \mathbf{3 5 x}+.10 y=\mathbf{1 2 . 5} \\
\mathbf{3 5 x}+\mathbf{1 0 y}=\mathbf{1 2 5 0} \\
\mathbf{- 1 0 x}-\mathbf{1 0 y}=\mathbf{- 5 0 0} \\
\hline \mathbf{2 5 x}=\mathbf{7 5 0} \\
\mathbf{x}=\mathbf{3 0} \\
\mathbf{x}+\mathbf{y}=\mathbf{5 0} \\
\mathbf{3 0}+\mathbf{y}=\mathbf{5 0}
\end{gathered}
$$

                volume percent volume
                of solution acid of acid
    first: $x$ 35\% .35x
second: y 10\% .10y
total $50 \mathrm{cc} 25 \% \quad 12.5 \mathrm{cc}$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
9. A chemist has one solution that is $35 \%$ acid and another that is $10 \%$ acid. How much of each solution should she use to make 50 cc of a solution that is $\mathbf{2 5 \%}$ acid?

$$
\begin{gathered}
x+y=\mathbf{5 0} \\
. \mathbf{3 5 x}+. \mathbf{1 0 y}=\mathbf{1 2 . 5} \\
\mathbf{3 5 x}+\mathbf{1 0 y}=\mathbf{1 2 5 0} \\
\mathbf{- 1 0 x}-\mathbf{1 0 y}=\mathbf{- 5 0 0} \\
\hline \mathbf{2 5 x}=\mathbf{7 5 0} \\
\mathbf{x}=\mathbf{3 0} \\
\mathbf{x}+\mathbf{y}=\mathbf{5 0} \\
\mathbf{3 0}+\mathbf{y}=\mathbf{5 0} \\
\mathbf{y}=\mathbf{2 0}
\end{gathered}
$$

                volume percent volume
                of solution acid of acid
    first: $x$ 35\% .35x
second: y 10\% .10y
total $50 \mathrm{cc} 25 \% \quad 12.5 \mathrm{cc}$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
9. A chemist has one solution that is $35 \%$ acid and another that is $10 \%$ acid. How much of each solution should she use to make 50 cc of a solution that is $\mathbf{2 5 \%}$ acid?

$$
\begin{gathered}
x+y=50 \\
. \mathbf{3 5 x}+. \mathbf{1 0 y}=\mathbf{1 2 . 5} \\
\mathbf{3 5 x}+\mathbf{1 0 y}=\mathbf{1 2 5 0} \\
\mathbf{- 1 0 x}-\mathbf{1 0 y}=\mathbf{- 5 0 0} \\
\hline \mathbf{2 5 x}=\mathbf{7 5 0} \\
\mathbf{x}=\mathbf{3 0} \\
\text { on } \quad x+y=\mathbf{5 0} \\
\mathbf{3 0}+\mathbf{y}=\mathbf{5 0} \\
\mathbf{y}=\mathbf{2 0}
\end{gathered}
$$

                volume percent volume
                of solution acid of acid
    first: $x$ 35\% .35x
second: y 10\% .10y
total $50 \mathrm{cc} 25 \% \quad 12.5 \mathrm{cc}$

She should use 30 cc of the $35 \%$ solution and 20 cc of the $\mathbf{1 0 \%}$ solution.

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
10. Six burgers and four orders of fries cost $\$ 8.70$. Three burgers and five orders of fries cost $\mathbf{\$ 6 . 6 0}$. How much does each item cost?

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
10. Six burgers and four orders of fries cost $\$ 8.70$. Three burgers and five orders of fries cost $\mathbf{\$ 6 . 6 0}$. How much does each item cost?
burger:
fries:

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
10. Six burgers and four orders of fries cost $\$ 8.70$. Three burgers and five orders of fries cost $\mathbf{\$ 6 . 6 0}$. How much does each item cost?

```
cost
each
```

burger:
fries:

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
10. Six burgers and four orders of fries cost $\$ 8.70$. Three burgers and five orders of fries cost $\mathbf{\$ 6 . 6 0}$. How much does each item cost?
cost
each
burger: $\mathbf{x} \subset$
fries: y $\boldsymbol{c}$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
10. Six burgers and four orders of fries cost $\$ 8.70$. Three burgers and five orders of fries cost $\mathbf{\$ 6 . 6 0}$. How much does each item cost?
cost
each
burger: $\mathrm{x} \subset$
fries: $\mathbf{y} \boldsymbol{c}$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
10. Six burgers and four orders of fries cost $\$ 8.70$. Three burgers and five orders of fries cost $\mathbf{\$ 6 . 6 0}$. How much does each item cost?

6x
cost
each
burger: $\mathrm{x} \subset$
fries: $y \subset$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
10. Six burgers and four orders of fries cost $\$ 8.70$. Three burgers and five orders of fries cost $\mathbf{\$ 6 . 6 0}$. How much does each item cost?

$$
6 x+4 y
$$

cost
each
burger: $\mathrm{x} \subset$
fries: $y \subset$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
10. Six burgers and four orders of fries cost $\$ 8.70$. Three burgers and five orders of fries cost $\mathbf{\$ 6 . 6 0}$. How much does each item cost?

$$
6 x+4 y=870
$$

cost
each
burger: $\mathrm{x} \subset$
fries: $y \subset$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
10. Six burgers and four orders of fries cost $\$ 8.70$. Three burgers and five orders of fries cost $\$ \mathbf{6 . 6 0}$. How much does each item cost?

$$
6 x+4 y=870
$$

cost
each
burger: $\mathrm{x} \subset$
fries: $y \subset$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
10. Six burgers and four orders of fries cost $\$ 8.70$. Three burgers and five orders of fries cost $\$ \mathbf{6 . 6 0}$. How much does each item cost?

$$
6 x+4 y=870
$$

cost
3x
burger: $\mathbf{x} \subset$
fries: $y \subset$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
10. Six burgers and four orders of fries cost $\$ 8.70$. Three burgers and five orders of fries cost $\$ \mathbf{6 . 6 0}$. How much does each item cost?

$$
6 x+4 y=870
$$

cost
$3 x+5 y$
burger: $\mathrm{x} \subset$
fries: y $\boldsymbol{c}$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
10. Six burgers and four orders of fries cost $\$ 8.70$. Three burgers and five orders of fries cost $\$ \mathbf{6 . 6 0}$. How much does each item cost?

|  | $6 x+4 y=870$ |
| :--- | :--- |
| cost | $3 x+5 y=660$ |

burger: $\mathbf{x} \subset$
fries: $\mathbf{y} \boldsymbol{c}$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
10. Six burgers and four orders of fries cost $\$ 8.70$. Three burgers and five orders of fries cost $\mathbf{\$ 6 . 6 0}$. How much does each item cost?

$$
\begin{array}{ll} 
& 6 x+4 y=870 \\
\text { cost } & 3 x+5 y=660 \\
\text { each } & 3 x+1
\end{array}
$$

burger: $\mathrm{x} \subset$
fries: $y \subset$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
10. Six burgers and four orders of fries cost $\$ 8.70$. Three burgers and five orders of fries cost $\mathbf{\$ 6 . 6 0}$. How much does each item cost?

fries: $\mathbf{y} \boldsymbol{c}$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
10. Six burgers and four orders of fries cost $\$ 8.70$. Three burgers and five orders of fries cost $\mathbf{\$ 6 . 6 0}$. How much does each item cost?

|  | $6 x+4 y=870$ |
| :---: | :---: |
| cost <br> each | $3 x+5 y=660$ |
| $x ¢$ | $30 x$ |

fries: $y c$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
10. Six burgers and four orders of fries cost $\$ 8.70$. Three burgers and five orders of fries cost $\mathbf{\$ 6 . 6 0}$. How much does each item cost?
cost each
burger: $\mathrm{x} \subset$

$$
\begin{array}{r}
6 x+4 y \\
3 x+5 y \\
30 x+20 y
\end{array}
$$

fries: y $\boldsymbol{c}$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
10. Six burgers and four orders of fries cost $\$ 8.70$. Three burgers and five orders of fries cost $\mathbf{\$ 6 . 6 0}$. How much does each item cost?
cost
each

$$
\begin{gathered}
6 x+4 y=870 \\
3 x+5 y=660
\end{gathered}
$$

burger: $\mathrm{x} \subset$
$30 x+20 y=4350$
fries: $y c$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
10. Six burgers and four orders of fries cost $\$ 8.70$. Three burgers and five orders of fries cost $\mathbf{\$ 6 . 6 0}$. How much does each item cost?

$$
\begin{array}{ll} 
& 6 x+4 y=870 \\
\text { cost } & 3 x+5 y=660 \\
\text { each } & 3 x+5
\end{array}
$$

burger: $x \subset \quad 30 x+20 y=4350$
fries: $\mathbf{y} \boldsymbol{c}$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
10. Six burgers and four orders of fries cost $\$ 8.70$. Three burgers and five orders of fries cost $\mathbf{\$ 6 . 6 0}$. How much does each item cost?

$$
\begin{array}{rc} 
& 6 x+4 y=870 \\
\text { cost } & 3 x+5 y=660 \\
\text { each } & \\
\text { burger: } x & 30 x+20 y=4350
\end{array}
$$

$$
\text { fries: } \quad y \not \subset
$$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
10. Six burgers and four orders of fries cost $\$ 8.70$. Three burgers and five orders of fries cost $\mathbf{\$ 6 . 6 0}$. How much does each item cost?

$$
\begin{array}{lll} 
& 6 x+4 y=870 \\
& \begin{array}{l}
\text { cost } \\
\text { each }
\end{array} & 3 x+5 y=660 \\
\text { urger: } & x c & 30 x+20 y=4350 \\
\text { fries: } & y c & -12 x
\end{array}
$$

burger: $x$ c

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
10. Six burgers and four orders of fries cost $\$ 8.70$. Three burgers and five orders of fries cost $\mathbf{\$ 6 . 6 0}$. How much does each item cost?

|  | $6 x+4 y=870$ |
| :---: | :---: |
| cost each | $3 \mathrm{x}+5 \mathrm{y}=660-4$ |
| $\mathbf{x}$ | 30x $+20 y=4350$ |
| yc | -12x-20y |

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
10. Six burgers and four orders of fries cost $\$ 8.70$. Three burgers and five orders of fries cost $\mathbf{\$ 6 . 6 0}$. How much does each item cost?

$$
6 x+4 y=870
$$

cost
each

$$
3 x+5 y=660-4
$$

burger: $x$ c
$30 x+20 y=4350$
fries: $y \subset \quad-12 x-20 y=-2640$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
10. Six burgers and four orders of fries cost $\$ 8.70$. Three burgers and five orders of fries cost $\mathbf{\$ 6 . 6 0}$. How much does each item cost?

|  | $6 x+4 y=870$ |
| :--- | :--- |
| cost | $3 x+5 y=660$ |

burger: $x \nmid \quad 30 x+20 y=4350$
fries: $y \subset \quad-12 x-20 y=-2640$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
10. Six burgers and four orders of fries cost $\$ 8.70$. Three burgers and five orders of fries cost $\mathbf{\$ 6 . 6 0}$. How much does each item cost?

|  | $6 x+4 y=870$ |
| :--- | :--- |
| cost |  |
| each | $3 x+5 y=660$ |

burger: $x \neq 30 x+20 y=4350$
fries: $y \subset \quad-12 x-20 y=-2640$
18x

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
10. Six burgers and four orders of fries cost $\$ 8.70$. Three burgers and five orders of fries cost $\mathbf{\$ 6 . 6 0}$. How much does each item cost?

|  | $6 x+4 y=870$ |
| :--- | :--- |
| cost |  |
| each | $3 x+5 y=660$ |

burger: $x \neq 30 x+20 y=4350$
fries: $y c \quad-12 x-20 y=-2640$

$$
18 x=1710
$$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
10. Six burgers and four orders of fries cost $\$ 8.70$. Three burgers and five orders of fries cost $\mathbf{\$ 6 . 6 0}$. How much does each item cost?

$$
\begin{array}{ll} 
& 6 x+4 y=870 \\
\text { cost } & 3 x+5 y=660 \\
\text { each } & 3 x+1
\end{array}
$$

burger: $x \subset \quad 30 x+20 y=4350$
fries: $y \subset \quad-12 x-20 y=-2640$

$$
\begin{aligned}
18 x & =1710 \\
x & =95
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
10. Six burgers and four orders of fries cost $\$ 8.70$. Three burgers and five orders of fries cost $\mathbf{\$ 6 . 6 0}$. How much does each item cost?

$$
\begin{aligned}
& 6 x+4 y=870 \\
& \text { cost } \\
& \text { each } \\
& 3 x+5 y=660 \\
& 30 x+20 y=4350 \\
& 6 x+4 y=870 \\
& -12 x-20 y=-2640 \\
& 18 \mathrm{x}=1710 \\
& x=95
\end{aligned}
$$

burger: $\mathrm{x} \subset$
fries: $\mathbf{y} \boldsymbol{c}$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
10. Six burgers and four orders of fries cost $\$ 8.70$. Three burgers and five orders of fries cost $\mathbf{\$ 6 . 6 0}$. How much does each item cost?

$$
\begin{array}{ll} 
& 6 x+4 y=870 \\
\text { cost } & 3 x+5 y=660 \\
\text { each } & 3 x+5
\end{array}
$$

burger: $\mathrm{x} \subset$

$$
6 x+4 y=870
$$

fries: $y \subset \quad-12 x-20 y=-2640$

$$
\begin{aligned}
18 \mathrm{x} & =1710 \\
x & =95
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
10. Six burgers and four orders of fries cost $\$ 8.70$. Three burgers and five orders of fries cost $\mathbf{\$ 6 . 6 0}$. How much does each item cost?

$$
\begin{aligned}
& 6 x+4 y=870 \\
& \text { cost } \\
& \text { each } \\
& 3 x+5 y=660 \xrightarrow{-2} \\
& 30 \mathrm{x}+20 \mathrm{y}=4350 \\
& 6 x+4 y=870 \\
& -12 x-20 y=-2640 \\
& 18 \mathrm{x}=1710 \\
& x=95
\end{aligned}
$$

burger: $\mathbf{x} \subset$
fries: y $\boldsymbol{c}$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
10. Six burgers and four orders of fries cost $\$ 8.70$. Three burgers and five orders of fries cost $\mathbf{\$ 6 . 6 0}$. How much does each item cost?

$$
\begin{aligned}
& 6 x+4 y=870 \\
& \text { cost } \\
& \text { each } \\
& 3 x+5 y=660 \xrightarrow{-2} \\
& 30 x+20 y=4350 \\
& 6 x+4 y=870 \\
& -12 x-20 y=-2640 \\
& 18 \mathrm{x}=1710 \\
& x=95
\end{aligned}
$$

burger: $\mathrm{x} \subset$
fries: $\mathbf{y} \boldsymbol{c}$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
10. Six burgers and four orders of fries cost $\$ 8.70$. Three burgers and five orders of fries cost $\mathbf{\$ 6 . 6 0}$. How much does each item cost?

$$
\begin{aligned}
& 6 x+4 y=870 \\
& \text { cost } \\
& \text { each } \\
& 3 x+5 y=660 \xrightarrow{-2} \\
& 30 x+20 y=4350 \\
& -12 x-20 y=-2640 \\
& 6 x+4 y=870 \\
& \rightarrow-6 x-10 y
\end{aligned}
$$

burger: $\mathbf{x} \subset$

$$
\begin{aligned}
30 x+20 y & =4350 \\
-12 x-20 y & =-2640 \\
\hline 18 x & =1710 \\
x & =95
\end{aligned}
$$

fries: $y \boldsymbol{c}$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
10. Six burgers and four orders of fries cost $\$ 8.70$. Three burgers and five orders of fries cost $\mathbf{\$ 6 . 6 0}$. How much does each item cost?

$$
\begin{aligned}
& 6 x+4 y=870 \\
& \text { cost } \\
& \text { each } \\
& 3 x+5 y=660 \xrightarrow{-2} \\
& 30 x+20 y=4350 \\
& \text { fries: } \quad \mathrm{y} \text { ¢ } \quad \mathbf{- 1 2 x}-\mathbf{2 0 y}=\mathbf{- 2 6 4 0} \longrightarrow \mathbf{- 6 x}-10 y=-1320
\end{aligned}
$$

burger: $\mathbf{x} \subset$

$$
\begin{aligned}
30 x+20 y & =4350 \\
-12 x-20 y & =-2640 \\
\hline 18 x & =1710 \\
x & =95
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
10. Six burgers and four orders of fries cost $\$ 8.70$. Three burgers and five orders of fries cost $\mathbf{\$ 6 . 6 0}$. How much does each item cost?

$$
6 x+4 y=870
$$

$$
\begin{aligned}
& \text { cost } \\
& \text { each }
\end{aligned} \quad 3 x+5 y=660
$$

burger: $x \not \subset$

$$
\begin{aligned}
30 x+20 y & =4350 \\
-12 x-20 y & =-2640 \\
\hline 18 x & =1710 \\
x & =95
\end{aligned}
$$

$$
6 x+4 y=870
$$

$$
\text { fries: } \quad y \subset \quad-12 x-20 y=-2640
$$

$$
-6 x-10 y=-1320
$$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
10. Six burgers and four orders of fries cost $\$ 8.70$. Three burgers and five orders of fries cost $\mathbf{\$ 6 . 6 0}$. How much does each item cost?

$$
6 x+4 y=870
$$

$$
\begin{aligned}
& \text { cost } \\
& \text { each }
\end{aligned} \quad 3 x+5 y=660
$$

burger: $x \not \subset$

$$
30 x+20 y=4350
$$

fries: $\mathbf{y} \not \subset$

| $\frac{-12 x-20 y}{}=-2640$ |  |
| ---: | :--- |
| $18 x$ | $=1710$ |
| $x$ | $=95$ |

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
10. Six burgers and four orders of fries cost $\$ 8.70$. Three burgers and five orders of fries cost $\mathbf{\$ 6 . 6 0}$. How much does each item cost?

$$
6 x+4 y=870
$$

$$
\begin{aligned}
& \text { cost } \\
& \text { each }
\end{aligned} \quad 3 x+5 y=660
$$

burger: $\mathrm{x} \subset$

$$
30 x+20 y=4350
$$

fries: $\mathbf{y} \not \subset$
$\frac{-12 x-20 y=-2640}{18 x}=1710$
$x=95$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
10. Six burgers and four orders of fries cost $\$ 8.70$. Three burgers and five orders of fries cost $\mathbf{\$ 6 . 6 0}$. How much does each item cost?

$$
6 x+4 y=870
$$

$$
\begin{aligned}
& \text { cost } \\
& \text { each }
\end{aligned} \quad 3 x+5 y=660
$$

burger: $\mathrm{x} \subset$

$$
30 x+20 y=4350
$$

fries: $\mathbf{y} \not \subset$

$$
\begin{gathered}
-12 x-20 y=-2640 \\
\hline 18 x=1710 \\
x=95
\end{gathered}
$$

$$
\begin{aligned}
6 x+4 y & =870 \\
-6 x-10 y & =-1320 \\
\hline-6 y & =-450 \\
y & =75
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
10. Six burgers and four orders of fries cost $\$ 8.70$. Three burgers and five orders of fries cost $\mathbf{\$ 6 . 6 0}$. How much does each item cost?

$$
6 x+4 y=870
$$

cost
each

$$
3 x+5 y=660
$$

burger: $\mathrm{x} \subset$

$$
30 x+20 y=4350
$$

fries: $\mathbf{y} \boldsymbol{c}$

| $-12 x-20 y=-2640$ |  |
| :---: | :---: | :---: |
| $18 x$ | $=1710$ |
| $x$ | $=95$ |$\quad$| $-6 x-10 y=-1320$ |
| :---: |

A burger costs $95 \not \subset$ each, and an order of fries costs $75 \not \subset$ each.

## Algebra I Class Worksheet \#4 Unit 9

Write a system of two equations with two variables and solve each of the following problems. Show your complete solution neatly organized.
10. Six burgers and four orders of fries cost $\$ 8.70$. Three burgers and five orders of fries cost $\mathbf{\$ 6 . 6 0}$. How much does each item cost?

## Good luck on your homework !!

burger: $x \neq 30 x+20 y=4350 \quad 6 x+4 y=870$
fries: $y \dot{d} \quad-12 x-20 y=-2640$

$$
18 x=1710
$$

$$
x=95
$$

$$
\begin{gathered}
-6 x-10 y=-1320 \\
-6 y=-450 \\
y=75
\end{gathered}
$$

A burger costs $95 \not \subset$ each, and an order of fries costs $75 \varnothing$ each.

