General Algebra 2 Lesson \#4 Unit 3 Class Worksheet \#4
For Worksheets \#5- \#8

## General Algebra 2 CWS \#4 Unit 3

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

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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

## General Algebra 2 CWS \#4 Unit 3

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
second: y

## General Algebra 2 CWS \#4 Unit 3

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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 +
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: x

$$
x+y
$$

second: y

## General Algebra 2 CWS \#4 Unit 3

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

$$
x+y=
$$

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: x

$$
x+y=20
$$

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: $x \quad x+y=20$
second: $y \quad x$

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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

$$
x+y=20
$$

second: $y \quad x=$

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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?

$$
\begin{array}{rl}
\text { first: } x & x+y=20 \\
\text { second: } y & x=3 y
\end{array}
$$

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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?

$$
\begin{array}{rl}
\text { first: } x & x+y=20 \\
\text { second: } y & x=3 y-
\end{array}
$$

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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.

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

$$
x+y=20
$$

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

## General Algebra 2 CWS \#4 Unit 3

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

$$
x+y=20
$$

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

## General Algebra 2 CWS \#4 Unit 3

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

$$
x+y=20
$$

$(3 y-4)+$
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

$$
x+y=20
$$

$(3 y-4)+y$
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

$$
x+y=20
$$

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

## General Algebra 2 CWS \#4 Unit 3

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
second: y

$$
x+y=20
$$

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

$$
x=3 y-4
$$

$$
4 y
$$

## General Algebra 2 CWS \#4 Unit 3

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

$$
x+y=20
$$

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

$$
x=3 y-4
$$

$$
4 y-4
$$

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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

$$
x+y=20
$$

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

$$
x=3 y-4
$$

$$
4 y-4=20
$$

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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

$$
x+y=20
$$

$$
x=3 y-4
$$

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

## General Algebra 2 CWS \#4 Unit 3

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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

$$
\begin{aligned}
& x+y=20 \\
& x=3 y-4
\end{aligned}
$$

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

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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

$$
\begin{aligned}
& x+y=20 \\
& x=3 y-4
\end{aligned}
$$

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

$$
4 y-4=20
$$

$$
4 y=24
$$

## General Algebra 2 CWS \#4 Unit 3

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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

$$
\begin{aligned}
& x+y=20 \\
& x=3 y-4
\end{aligned}
$$

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

## General Algebra 2 CWS \#4 Unit 3

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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

$$
\begin{aligned}
& x+y=20 \\
& x=3 y-4
\end{aligned}
$$

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

## General Algebra 2 CWS \#4 Unit 3

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

$$
\begin{aligned}
& x+y=20 \\
& x=3 y-4
\end{aligned}
$$

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

$$
4 y-4=20
$$

$$
4 y=24
$$

$$
y=6
$$

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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

$$
\begin{aligned}
& x+y=20 \\
& x=3 y-4
\end{aligned}
$$

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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

$$
\begin{aligned}
& x+y=20 \\
& x=3 y-4
\end{aligned}
$$

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

$$
x=3 y-4
$$

$$
x=3(6)
$$

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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

$$
\begin{aligned}
& x+y=20 \\
& x=3 y-4
\end{aligned}
$$

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

$$
4 y=24
$$

$$
y=6
$$

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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

$$
\begin{aligned}
& x+y=20 \\
& x=3 y-4
\end{aligned}
$$

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

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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: x

$$
\begin{aligned}
& x+y=20 \\
& x=3 y-4
\end{aligned}
$$

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

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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.

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

$$
\begin{aligned}
& x+y=20 \\
& x=3 y-4
\end{aligned}
$$

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

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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: x

$$
\begin{aligned}
& x+y=20 \\
& x=3 y-4
\end{aligned}
$$

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

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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: x

$$
\begin{aligned}
& x+y=20 \\
& x=3 y-4
\end{aligned}
$$

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

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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

$$
\begin{aligned}
& x+y=20 \\
& x=3 y-4
\end{aligned}
$$

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

$$
x=3 y-4
$$

$$
4 y-4=20
$$

$$
4 y=24 \quad x=18-4
$$

$$
y=6
$$

$$
x=14
$$

The first number is 14 ,

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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

$$
\begin{aligned}
& x+y=20 \\
& x=3 y-4
\end{aligned}
$$

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

The first number is 14 , and the second number is 6 .

## General Algebra 2 CWS \#4 Unit 3

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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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:
second:

## General Algebra 2 CWS \#4 Unit 3

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
second:

## General Algebra 2 CWS \#4 Unit 3

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
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
X
second: y

## General Algebra 2 CWS \#4 Unit 3

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
X +
second: y

## General Algebra 2 CWS \#4 Unit 3

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: $x \quad x+y$ second: y

## General Algebra 2 CWS \#4 Unit 3

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

$$
x+y=
$$

second: y

## General Algebra 2 CWS \#4 Unit 3

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: $\mathrm{x} \quad \mathrm{x}+\mathrm{y}=15$
second: y

## General Algebra 2 CWS \#4 Unit 3

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: $y \quad x$

## General Algebra 2 CWS \#4 Unit 3

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

$$
x+y=15
$$

second: $y \quad x-$

## General Algebra 2 CWS \#4 Unit 3

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

$$
x+y=15
$$

second: y
$x-y$

## General Algebra 2 CWS \#4 Unit 3

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

$$
x+y=15
$$

second: y

$$
x-y=
$$

## General Algebra 2 CWS \#4 Unit 3

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

$$
x+y=15
$$

second: $y \quad x-y=9$

## General Algebra 2 CWS \#4 Unit 3

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?

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

## General Algebra 2 CWS \#4 Unit 3

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?

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

## General Algebra 2 CWS \#4 Unit 3

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?

$$
\begin{array}{rc}
\text { first: } x \\
\text { second: } y & \begin{array}{c}
x+y=15 \\
x-y=9
\end{array} \\
\cline { 2 - 3 } & 2 x=
\end{array}
$$

## General Algebra 2 CWS \#4 Unit 3

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?

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

## General Algebra 2 CWS \#4 Unit 3

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?

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

## General Algebra 2 CWS \#4 Unit 3

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?

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

## General Algebra 2 CWS \#4 Unit 3

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

$$
\begin{array}{r}
x-y=9 \\
\hline 2 x=24 \\
x=12
\end{array}
$$

## General Algebra 2 CWS \#4 Unit 3

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?

$$
\begin{array}{rcc}
\text { first: } x & x+y=15 & x+y=15 \\
\text { second: } y & \begin{array}{c}
x-y=9 \\
\cline { 2 - 3 } \\
\end{array} & \\
& 2 x=24 & \\
& x=12 &
\end{array}
$$

## General Algebra 2 CWS \#4 Unit 3

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
second: y

$$
\begin{array}{cc}
x+y=15 & x+y=15 \\
x-y=9 & 12+y
\end{array}
$$

## General Algebra 2 CWS \#4 Unit 3

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?

$$
\begin{array}{rcc}
\text { first: } x & x+y=15 & x+y=15 \\
\text { second: } y & \begin{array}{c}
x-y=9 \\
\end{array} & \begin{array}{rl}
x-y & 12+y=15 \\
& 2 x
\end{array} \\
& x &
\end{array}
$$

## General Algebra 2 CWS \#4 Unit 3

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: $x$ | $x+y=15$ | $x+y=15$ |
| ---: | :---: | :---: |
| second: $y$ | $x-y=9$ | $12+y=15$ |
| $2 x=24$ | $y=$ |  |
|  | $x=12$ |  |

## General Algebra 2 CWS \#4 Unit 3

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

$$
\begin{array}{cc}
x+y=15 & x+y=15 \\
x-y=9 & 12+y=15 \\
\cline { 1 - 1 } 2 x=24 & y=3 \\
x=12 &
\end{array}
$$

## General Algebra 2 CWS \#4 Unit 3

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 | $x+y=15$ | $x+y=15$ |
| :---: | :---: | :---: |
| second: y | $x-y=9$ | $12+y=15$ |
|  | $2 \mathrm{x}=24$ | $y=3$ |
|  | $\mathrm{x}=12$ |  |

The numbers are 12 and 3.

## General Algebra 2 CWS \#4 Unit 3

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?

## General Algebra 2 CWS \#4 Unit 3

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?
dimes:
nickels:

## General Algebra 2 CWS \#4 Unit 3

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<br>of coins

dimes:
nickels:

## General Algebra 2 CWS \#4 Unit 3

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:

## General Algebra 2 CWS \#4 Unit 3

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 $\mathbf{\$ 3 . 2 0}$. If there are 40 coins in the collection, then how many coins of each type are there?

```
number
of coins
```

dimes: x
nickels: y

## General Algebra 2 CWS \#4 Unit 3

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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:
total

## General Algebra 2 CWS \#4 Unit 3

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number
of coins
dimes: x
nickels:
total $\frac{\mathrm{y}}{40}$

## General Algebra 2 CWS \#4 Unit 3

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```
number
of coins
    x
```

dimes:
nickels:
total $\frac{\mathrm{y}}{40}$

## General Algebra 2 CWS \#4 Unit 3

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```
number
X +
x
```

dimes:
nickels:
total $\frac{\mathrm{y}}{40}$

## General Algebra 2 CWS \#4 Unit 3

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number
of coins
dimes: x
nickels:
total $\frac{\mathrm{y}}{40}$

$$
x+y
$$

## General Algebra 2 CWS \#4 Unit 3

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number
of coins
dimes: x
nickels:
total $\frac{\mathrm{y}}{40}$

$$
x+y=
$$

## General Algebra 2 CWS \#4 Unit 3

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number
of coins
dimes: x
nickels:
total $\frac{\mathrm{y}}{40}$

$$
x+y=40
$$

## General Algebra 2 CWS \#4 Unit 3

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 Value of
x+y=40
of coins the coins
\[
x+y=40
\]
```

dimes:

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

## General Algebra 2 CWS \#4 Unit 3

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 Value of
x+y=40
```

dimes: x 10x申
nickels:
total $\frac{\mathrm{y}}{40}$

## General Algebra 2 CWS \#4 Unit 3

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 of
x+y=40
```

dimes: x 10x申
nickels: $\frac{y}{40} \quad 5 y \phi$

## General Algebra 2 CWS \#4 Unit 3

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 of
x+y=40
```

dimes: x 10x申

nickels: | total | $y$ | $5 y$ |
| :---: | :---: | :---: |
|  | 40 |  |

## General Algebra 2 CWS \#4 Unit 3

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 <br> of coins | Value of <br> the coins |
| :---: | :---: |
| x | $10 \mathrm{x} \phi$ |
| y | $5 \mathrm{y} \phi$ |
| 40 | $320 ¢$ |

## General Algebra 2 CWS \#4 Unit 3

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 <br> nalue of <br> of coins | C the coins |
| :---: | :---: | :---: | :---: |$\quad 10 \mathrm{x}+\mathrm{y}=40$

## General Algebra 2 CWS \#4 Unit 3

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|  | number <br> nalue of <br> of coins | x the coins |
| :---: | :---: | :---: | :---: |, $10 \mathrm{x}+\mathrm{y}=40$

## General Algebra 2 CWS \#4 Unit 3

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$\left.\begin{array}{cccc} & \begin{array}{c}\text { number } \\ \text { nalue of } \\ \text { of coins }\end{array} & \mathrm{x} \text { the coins }\end{array}\right) 10 \mathrm{x}+\mathrm{y}=40$

## General Algebra 2 CWS \#4 Unit 3

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 <br> nolue of <br> of coins | the coins | $10 \mathrm{x}+\mathrm{y}=40$ |
| :---: | :---: | :---: | :---: |
| dimes: | x | $10 \mathrm{y} \phi$ |  |
| nickels: | y | $5 \mathrm{y} \phi$ |  |
| total | 40 | $320 \phi$ |  |

## General Algebra 2 CWS \#4 Unit 3

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|  | number <br> of coins | Value of <br> the coins | $10 \mathrm{x}+\mathrm{y}=40$ |
| :---: | :---: | :---: | :---: |
| dimes: | x | $10 \mathrm{x} \phi$ |  |
| nickels: | y | $5 \mathrm{y} \phi$ |  |
| total | 40 | $320 \phi$ |  |

## General Algebra 2 CWS \#4 Unit 3

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|  | number of coins | Value of the coins $10 x \not$ | $\begin{gathered} x+y=40 \quad \xrightarrow{-5} \\ 10 \mathrm{x}+5 \mathrm{y}=320 \end{gathered}$ |
| :---: | :---: | :---: | :---: |
| dimes: | X | $10 \times 6$ |  |
| nickels: | y | 5 y ¢ |  |
| total | 40 | $320 ¢$ |  |

## General Algebra 2 CWS \#4 Unit 3

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|  | numberValue of <br> of coins | $x+y=40$ <br> the coins | $10 \mathrm{x}+5 \mathrm{y}=320$ |
| :---: | :---: | :---: | :---: | :---: |

## General Algebra 2 CWS \#4 Unit 3

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|  | numberValue of <br> of coins | $x+y=40$ <br> the coins | $10 x+5 y=320$ |
| :---: | :---: | :---: | :---: | :---: |

## General Algebra 2 CWS \#4 Unit 3

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|  | numberValue of <br> of coins | $x+y=40$ <br> the coins | $10 x+5 y=320$ |
| :---: | :---: | :---: | :---: | :---: |

## General Algebra 2 CWS \#4 Unit 3

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|  | numberValue of <br> of coins | $x+y=40$ <br> the coins | $10 x+5 y=320$ |
| :---: | :---: | :---: | :---: |

## General Algebra 2 CWS \#4 Unit 3

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| dimes: | number <br> of coins <br> X | Value of the coins 10x¢ | $$ |
| :---: | :---: | :---: | :---: |
| nickels: | y | 5yd |  |
| total | 40 | 320¢ |  |

## General Algebra 2 CWS \#4 Unit 3

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?

| dimes: | number <br> of coins <br> X | Value of the coins 10x¢ | $\begin{aligned} x+y=40 & -5 \\ 10 x+5 y=320 & -5 x-5 y=-200 \\ & 10 x+ \end{aligned}$ |
| :---: | :---: | :---: | :---: |
| nickels: | y | 5yd |  |
| total | 40 | 320¢ |  |

## General Algebra 2 CWS \#4 Unit 3

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| dimes: | number <br> of coins <br> X | Value of the coins 10xc | $\begin{gathered} x+y=40 \\ 10 x+5 y=320 \\ \longrightarrow 10 x+5 y \end{gathered}$ |
| :---: | :---: | :---: | :---: |
| nickels: | y | 5yd |  |
| total | 40 | $320 ¢$ |  |

## General Algebra 2 CWS \#4 Unit 3

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| dimes: | number <br> of coins <br> X | $\begin{aligned} & \text { Value of } \\ & \text { the coins } \\ & 10 \mathrm{x} \neq \end{aligned}$ | $\begin{aligned} x+y=40 & \xrightarrow{-5}-5 x-5 y=-200 \\ 10 x+5 y=320 & \longrightarrow 10 x+5 y= \end{aligned}$ |
| :---: | :---: | :---: | :---: |
| nickels: | y | 5 y ¢ |  |
| total | 40 | $320 ¢$ |  |

## General Algebra 2 CWS \#4 Unit 3

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|  | numberValue of <br> of coins <br> the coins | $\mathrm{x}+\mathrm{y}=40 \xrightarrow{-5} \quad-5 \mathrm{x}-5 \mathrm{y}=-200$ |  |  |
| :---: | :---: | :---: | :---: | :---: |
| dimes: | x | $10 \mathrm{x} \phi$ |  |  |
| nickels: | y | $5 \mathrm{y} \phi$ |  |  |
| total | 40 | $320 \phi$ |  |  |

## General Algebra 2 CWS \#4 Unit 3

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|  | $\begin{array}{c}\text { number } \\ \text { num } \\ \text { of coins }\end{array}$ |  |
| :---: | :---: | :---: |
| the coins of |  |  |$\}$

$$
\begin{aligned}
x+y=40 & \xrightarrow{-5}-5 x-5 y=-200 \\
10 x+5 y=320 & \longrightarrow 10 x+5 y=320
\end{aligned}
$$

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| dimes: <br> nickels: <br> total | number of coins X | Value of the coins 10x¢ | $\begin{gathered} \mathrm{x}+\mathrm{y}=40 \quad \xrightarrow{-5} \\ 10 \mathrm{x}+5 \mathrm{y}=320 \end{gathered}$ | $\begin{aligned} & 5 x-5 y=-200 \\ & x+5 y=320 \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: |
|  | y | 5y¢ |  | $5 \mathrm{x}=120$ |
|  | 40 | $320 ¢$ |  | $\mathbf{x}=24$ |
|  | There are $\mathbf{2 4}$ dimes and 16 nickels. |  |  | $24+y=40$ |

## General Algebra 2 CWS \#4 Unit 3

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?

## General Algebra 2 CWS \#4 Unit 3

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:
quarters:

## General Algebra 2 CWS \#4 Unit 3

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number
of coins
dimes:
quarters:

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number<br>of coins

dimes: X
quarters:

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number<br>of coins

dimes: x
quarters: y

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number Value of<br>of coins the coins

dimes: x
quarters: y

## General Algebra 2 CWS \#4 Unit 3

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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?

```
number Value of
of coins the coins
```

dimes: x 10x申
quarters: y

## General Algebra 2 CWS \#4 Unit 3

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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?

```
number Value of
of coins the coins
```

dimes: x 10x申
quarters: y 25yc

## General Algebra 2 CWS \#4 Unit 3

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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?

| number <br> of coins | Value of <br> the coins |
| :---: | :---: |
| x | $10 \mathrm{x} \varnothing$ |
| y | $25 \mathrm{y} \varnothing$ |

total

## General Algebra 2 CWS \#4 Unit 3

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: | x | $10 \mathrm{x} \varnothing$ |
| quarters: | y | $25 \mathrm{y} \phi$ |
| total |  | $800 ¢$ |

## General Algebra 2 CWS \#4 Unit 3

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?

10x

|  | number <br> of coins |  |
| :---: | :---: | :---: |
| dime of |  |  |
| dimes: | x | $10 \mathrm{x} \phi$ |
| quarters: | y | $25 \mathrm{y} \phi$ |
| total |  | $800 \phi$ |

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| dimes: | number of coins | Value of the coins |
| :---: | :---: | :---: |
|  | X | 10x¢ |
| quarters: | y | 25yd |
| total |  | 800¢ |

## General Algebra 2 CWS \#4 Unit 3

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?

|  | number of coins | Value of the coins | $10 x+25 y$ |
| :---: | :---: | :---: | :---: |
| dimes: | X | 10x¢ |  |
| quarters: | y | 25yd |  |
| total |  | 800¢ |  |

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|  | number <br> of coins <br> olue of <br> the coins |  |
| :---: | :---: | :---: |
| dimes: | x | $10 \mathrm{x} \phi$ |
| quarters: | y | $25 \mathrm{y} \phi$ |
| total |  | $800 ¢$ |

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$$
10 x+25 y=800
$$

number Value of
of coins the coins
X
dimes: x 10x申
quarters:
total $\frac{\mathrm{y} \quad 25 \mathrm{y} \phi}{800 ¢}$

## General Algebra 2 CWS \#4 Unit 3

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?

|  | number of coins | Value of the coins | $\begin{gathered} 10 x+25 y=800 \\ x= \end{gathered}$ |
| :---: | :---: | :---: | :---: |
| dimes: | x | 10x¢ |  |
| quarters: | y | 25y ${ }^{\text {d }}$ |  |
| total |  | $800 ¢$ |  |

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| :---: | :---: | :---: | :---: |
| dimes: | x | 10x¢ |  |
| quarters: | y | 25yd |  |
| 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 | 25yd |  |
| total |  | 800¢ |  |

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|  |  |  |  | $10 \mathrm{x}+25 \mathrm{y}=800$ |
| :---: | :---: | :---: | :---: | :---: |
|  | number of coins | Value of the coins |  | $x=2 y-1$ |
| dimes: | x | 10x¢ | $10($ |  |
| quarters: | y | 25yc |  |  |
| total |  | 800¢ |  |  |

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| :---: | :---: | :---: | :---: |
| dimes: | x | 10x¢ | $10(2 \mathrm{y}-1)$ |
| quarters: | y | $25 y ¢$ |  |
| total |  | 800¢ |  |

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| :---: | :---: | :---: | :---: |
| dimes: | x | 10x¢ | $10(2 y-1)+$ |
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| :---: | :---: | :---: | :---: |
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|  | y | $25 y d$ |  |
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| :---: | :---: | :---: | :---: |
|  | x | 10x¢ | $10(2 y-1)+25 y=800$ |
|  | y | 25 y ¢ | 20 |
| total |  | $800 ¢$ |  |

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| :---: | :---: | :---: | :---: |
|  | x | 10x¢ | $10(2 y-1)+25 y=$ |
|  | y | 25y ${ }^{\text {c }}$ |  |
| tal |  | $800 ¢$ |  |

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

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|  | y | $25 y ¢$ |  |
| total |  | $800 ¢$ |  |

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| :---: | :---: | :---: | :---: |
| dimes: | x | 10x¢ | $10(2 y-1)+25 y=800$ |
| quarters: | y | 25 y ¢ | $20 y-10+25 y=800$ |
| total |  | $800 ¢$ | $45 y$ |

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| :---: | :---: | :---: | :---: |
|  | x | 10x¢ | (2y-1) + 25 y |
|  | y | 25yd |  |
| total |  | 800¢ |  |
|  |  |  | 45 y - |

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|  | number <br> nalue of <br> of coins the coins |  |
| :---: | :---: | :---: |
| dimes: | x | $10 \mathrm{x}+25 \mathrm{y}=800$ |
| quarters: | y | $25 \mathrm{y} \phi$ |
| total |  | $800 ¢$ | | $10(2 \mathrm{y}-1)+25 \mathrm{y}=800$ |
| :---: |
|  |
|  |

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

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|  | y | 25yc | $20 y-10+25 y=800$ |
|  |  | 800¢ | $45 y-10=800$ |
|  |  |  | $45 y=810$ |
|  |  |  | $y=18$ |

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| :---: | :---: | :---: | :---: | :---: |
|  | x | 10x¢ | $10(2 y-1)+25 y=800$ |  |
|  | y | $25 y d$ | $20 y-10+25 y=800$ |  |
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|  | y | $25 y d$ | $20 \mathrm{y}-10+25 \mathrm{y}=800$ | $\mathrm{x}=$ |
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| :---: | :---: | :---: | :---: | :---: |
|  | x | 10x¢ | $10(2 y-1)+25 y=800$ | $x=2 y-1$ |
|  | y | $25 y d$ | $20 y-10+25 y=800$ | $\mathrm{x}=2(18)$ |
|  |  | 800¢ | $45 \mathrm{y}-10=800$ |  |
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|  |  | 800¢ | $45 \mathrm{y}-10=800$ | $\mathrm{x}=35$ |
|  |  |  | $\begin{gathered} 45 y=810 \\ \mathbf{y}=\mathbf{1 8} \end{gathered}$ | re are 35 dimes d 18 quarters. |

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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?

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Bill:
Sue:

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Bill: $\quad$ x
Sue:

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Sue: y

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Sue: $\quad \mathrm{y}$
total

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| Bill: | x |
| :---: | :---: |
| Sue: | y |
| total | 1000 |

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| Bill: | $x$ | $x$ |
| :--- | :---: | :--- |
| Sue: | $y$ |  |
| total | 1000 |  |

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| :---: | :---: | :---: |
| Sue: | $y$ |  |
| total | 1000 |  |

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Bill: $x \quad x+y=1000$
Sue: $\frac{y}{1000}$

## General Algebra 2 CWS \#4 Unit 3

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 $\mathbf{\$ 1 0 0 0}$. If Sue earned $\$ 25$ more than 4 times the amount earned by Tom, then how much did each person earn?
$\begin{array}{lcl}\text { Bill: } & x & x+y=1000 \\ \text { Sue: } & y & y \\ \text { total } & 1000 & \end{array}$

## General Algebra 2 CWS \#4 Unit 3

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 $\mathbf{\$ 1 0 0 0}$. If Sue earned $\$ 25$ more than 4 times the amount earned by Tom, then how much did each person earn?
$\begin{array}{lcl}\text { Bill: } & x & x+y=1000 \\ \text { Sue: } & y & y= \\ \text { total } & 1000 & \end{array}$

## General Algebra 2 CWS \#4 Unit 3

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

| Bill: | $x$ | $x+y=1000$ |
| :--- | :---: | :--- |
| Sue: | $\frac{y}{2}$ | $y=4 x$ |
| total | 1000 |  |

## General Algebra 2 CWS \#4 Unit 3

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

| Bill: | $x$ | $x+y=1000$ |
| :--- | :---: | :--- |
| Sue: | $\frac{y}{2}$ | $y=4 x+$ |
| total | 1000 |  |

## General Algebra 2 CWS \#4 Unit 3

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

| Bill: | $x$ | $x+y=1000$ |
| :--- | :---: | :--- |
| Sue: | $\frac{y}{1000}$ | $y=4 x+25$ |
| total |  |  |

## General Algebra 2 CWS \#4 Unit 3

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

Bill: $\quad \mathrm{x}$
Sue: $y \quad y=4 x+25$
total 1000

$$
x+y=1000
$$

$$
y=4 x+25
$$

$$
\mathrm{X}
$$

## General Algebra 2 CWS \#4 Unit 3

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

Bill: $\quad \mathrm{x}$

$$
x+y=1000
$$

Sue: $\quad \mathrm{y}$
$y=4 x+25$
total 1000

$$
\mathrm{x}+
$$

## General Algebra 2 CWS \#4 Unit 3

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

Bill: $\quad \mathrm{x}$

$$
x+y=1000
$$

Sue: $\quad \mathrm{y}$
$y=4 x+25$
total 1000

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

## General Algebra 2 CWS \#4 Unit 3

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

Bill: $\quad \mathrm{x}$

$$
x+y=1000
$$

Sue: $\quad \mathrm{y}$
$y=4 x+25$
total 1000

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

## General Algebra 2 CWS \#4 Unit 3

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

Bill: $\quad \mathrm{x}$

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

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

## General Algebra 2 CWS \#4 Unit 3

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: $\quad \mathrm{x}$

$$
\text { Sue: } \quad \mathrm{y}
$$

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

total 1000

## General Algebra 2 CWS \#4 Unit 3

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

Bill: $\quad \mathrm{x}$

$$
\text { Sue: } \quad \mathrm{y}
$$

$$
\text { total } 1000
$$

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

## General Algebra 2 CWS \#4 Unit 3

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: $\quad \mathrm{x}$

$$
\text { Sue: } \quad \mathrm{y}
$$

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

total 1000

## General Algebra 2 CWS \#4 Unit 3

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: $\quad \mathrm{x}$

$$
\text { Sue: } \quad \mathrm{y}
$$

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

total 1000

## General Algebra 2 CWS \#4 Unit 3

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: $\quad \mathrm{x}$

$$
\text { Sue: } \quad \mathrm{y}
$$

$$
\text { total } 1000
$$

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

## General Algebra 2 CWS \#4 Unit 3

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: $\quad \mathrm{x}$

$$
\text { Sue: } \quad \mathrm{y}
$$

$$
\text { total } 1000
$$

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

## General Algebra 2 CWS \#4 Unit 3

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: $\quad \mathrm{x}$

$$
\text { Sue: } \quad \mathrm{y}
$$

$$
\text { total } 1000
$$

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

## General Algebra 2 CWS \#4 Unit 3

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: $\quad \mathrm{x}$

$$
\text { Sue: } \quad \mathrm{y}
$$

$$
\text { total } 1000
$$

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

## General Algebra 2 CWS \#4 Unit 3

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: $\quad \mathrm{x}$

$$
\text { Sue: } \quad \mathrm{y}
$$

$$
\text { total } 1000
$$

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

## General Algebra 2 CWS \#4 Unit 3

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

$$
\text { Sue: } \quad \mathrm{y}
$$

$$
\text { total } 1000
$$

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

## General Algebra 2 CWS \#4 Unit 3

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

$$
\text { Sue: } \quad \mathrm{y}
$$

$$
\text { total } 1000
$$

$$
\begin{gathered}
x+y=1000 \\
y=4 x+25 \\
x+(4 x+25)=1000 \\
5 x+25=1000 \\
5 x=975 \\
\mathbf{x}=\mathbf{1 9 5}
\end{gathered}
$$

## General Algebra 2 CWS \#4 Unit 3

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

Bill: x

$$
\text { Sue: } \quad \mathrm{y}
$$

$$
\text { total } 1000
$$

$$
\begin{aligned}
& x+y=1000 \\
& y=4 x+25 \\
& x+(4 x+25)=1000 \quad y=4 x+25 \\
& 5 x+25=1000 \\
& 5 x=975 \\
& \quad \mathbf{x}=\mathbf{1 9 5}
\end{aligned}
$$

## General Algebra 2 CWS \#4 Unit 3

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

Bill: x

$$
\text { Sue: } \quad \mathrm{y}
$$

$$
\text { total } 1000
$$

$$
\begin{array}{cl}
x+y=1000 & \\
y=4 x+25 & \\
x+(4 x+25)=1000 & y=4 x+25 \\
5 x+25=1000 & y= \\
5 x=975 & \\
\quad \mathbf{x}=\mathbf{1 9 5} &
\end{array}
$$

## General Algebra 2 CWS \#4 Unit 3

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

Bill: x

$$
\text { Sue: } \quad \mathrm{y}
$$

$$
\text { total } 1000
$$

$$
\begin{array}{cl}
x+y=1000 & \\
y=4 x+25 & \\
x+(4 x+25)=1000 & y=4 x+25 \\
5 x+25=1000 & y=780 \\
5 x=975 & \\
\mathbf{x}=\mathbf{1 9 5} &
\end{array}
$$

## General Algebra 2 CWS \#4 Unit 3

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

Bill: x

$$
\text { Sue: } \quad \mathrm{y}
$$

$$
\text { total } 1000
$$

$$
\begin{array}{cl}
x+y=1000 & \\
y=4 x+25 & \\
x+(4 x+25)=1000 & y=4 x+25 \\
5 x+25=1000 & y=780+ \\
5 x=975 & \\
\mathbf{x}=\mathbf{1 9 5} &
\end{array}
$$

## General Algebra 2 CWS \#4 Unit 3

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 $\mathbf{\$ 1 0 0 0}$. If Sue earned $\mathbf{\$ 2 5}$ more than 4 times the amount earned by Tom, then how much did each person earn?

Bill: x

$$
\text { Sue: } \quad y \quad y=4 x+25
$$

$$
\text { total } 1000
$$

$$
\begin{array}{cl}
x+y=1000 & \\
y=4 x+25 & \\
x+(4 x+25)=1000 & y=4 x+25 \\
5 x+25=1000 & y=780+25 \\
5 x=975 & \\
\mathbf{x}=\mathbf{1 9 5} &
\end{array}
$$

## General Algebra 2 CWS \#4 Unit 3

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 $\mathbf{\$ 1 0 0 0}$. If Sue earned $\mathbf{\$ 2 5}$ more than 4 times the amount earned by Tom, then how much did each person earn?

Bill: x

$$
\text { Sue: } \quad y \quad y=4 x+25
$$

$$
\text { total } 1000
$$

$$
\begin{array}{cl}
\mathrm{x}+\mathrm{y}=1000 & \\
\mathrm{y}=4 \mathrm{x}+25 & \\
\mathrm{x}+(4 \mathrm{x}+25)=1000 & \mathrm{y}=4 \mathrm{x}+25 \\
5 \mathrm{x}+25=1000 & \mathrm{y}=780+25 \\
5 \mathrm{x}=975 & \mathrm{y}= \\
\mathbf{x}=\mathbf{1 9 5} &
\end{array}
$$

## General Algebra 2 CWS \#4 Unit 3

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 $\mathbf{\$ 1 0 0 0}$. If Sue earned $\mathbf{\$ 2 5}$ more than 4 times the amount earned by Tom, then how much did each person earn?

Bill: x

$$
\text { Sue: } \quad y \quad y=4 x+25
$$

$$
\text { total } 1000
$$

$$
\begin{array}{cc}
x+y=1000 & \\
y=4 x+25 & \\
x+(4 x+25)=1000 & y=4 x+25 \\
5 x+25=1000 & y=780+25 \\
5 x=975 & \mathbf{y}=\mathbf{8 0 5} \\
\mathbf{x}=\mathbf{1 9 5} &
\end{array}
$$

## General Algebra 2 CWS \#4 Unit 3

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 $\mathbf{\$ 1 0 0 0}$. If Sue earned $\mathbf{\$ 2 5}$ more than 4 times the amount earned by Tom, then how much did each person earn?

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

$$
\begin{array}{cc}
x+y=1000 & \\
y=4 x+25 & \\
x+(4 x+25)=1000 & y=4 x+25 \\
5 x+25=1000 & y=780+25 \\
5 x=975 & y=\mathbf{8 0 5} \\
\mathbf{x}=\mathbf{1 9 5} & \text { Bill earned \$195, and } \\
& \text { Sue earned \$805. }
\end{array}
$$

## General Algebra 2 CWS \#4 Unit 3

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?

## General Algebra 2 CWS \#4 Unit 3

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 :

## General Algebra 2 CWS \#4 Unit 3

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<br>brand A :<br>brand B :

## General Algebra 2 CWS \#4 Unit 3

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 :

## General Algebra 2 CWS \#4 Unit 3

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

## General Algebra 2 CWS \#4 Unit 3

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

## General Algebra 2 CWS \#4 Unit 3

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<br>brand A: x<br>brand B: y<br>mixture 50

## General Algebra 2 CWS \#4 Unit 3

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
of pounds
brand A: x
brand B: y
mixture 50

## General Algebra 2 CWS \#4 Unit 3

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

$$
\mathrm{x}+
$$

of pounds
brand A: x
brand B: y
mixture 50

## General Algebra 2 CWS \#4 Unit 3

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

## General Algebra 2 CWS \#4 Unit 3

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

## General Algebra 2 CWS \#4 Unit 3

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

$$
x+y=50
$$

brand A: x
brand B: y
mixture 50

## General Algebra 2 CWS \#4 Unit 3

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

$$
x+y=50
$$

## General Algebra 2 CWS \#4 Unit 3

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 150¢
brand B: y
mixture 50
```


## General Algebra 2 CWS \#4 Unit 3

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>brand A: x 150¢<br>brand B: y 180ф<br>mixture 50

## General Algebra 2 CWS \#4 Unit 3

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>brand A: x 150¢<br>brand B: y 180ф<br>mixture 50 159ф<br>$$
x+y=50
$$

## General Algebra 2 CWS \#4 Unit 3

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 poun | value per pound | total | $x+y=50$ |
| :---: | :---: | :---: | :---: |
| brand A: x | $150 ¢$ |  |  |
| brand B: y | 180¢ |  |  |
| mixture 50 | 159¢ |  |  |

## General Algebra 2 CWS \#4 Unit 3

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?

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

## General Algebra 2 CWS \#4 Unit 3

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 poundse per <br> pound | total <br> value | $\mathrm{x}+\mathrm{y}=50$ |
| :--- | :---: | :---: | :---: |
| brand A: x | $150 \phi$ | $150 \mathrm{x} \phi$ |  |
| brand B: y | $180 \phi$ | $180 \mathrm{y} \phi$ |  |
| mixture $\overline{50}$ | $159 \phi$ |  |  |

## General Algebra 2 CWS \#4 Unit 3

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 pound | total | $x+y=50$ |
| :---: | :---: | :---: | :---: |
| brand A: x | $150 ¢$ | 150x¢ |  |
| brand B: y | 180¢ | 180y¢ |  |
| mixture 50 | 159¢ |  |  |

## General Algebra 2 CWS \#4 Unit 3

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?

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

## General Algebra 2 CWS \#4 Unit 3

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 <br> pound | total <br> value | 150 x |
| :--- | :---: | :---: | :---: |

## General Algebra 2 CWS \#4 Unit 3

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

## General Algebra 2 CWS \#4 Unit 3

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|  | number value per <br> of pounds <br> pound | total <br> value | $\mathrm{x}+\mathrm{y}=50$ <br> brand A: x |
| :--- | :---: | :---: | :---: |
| $150 \phi$ | $150 \mathrm{x} \phi$ | $150 \mathrm{x}+180 \mathrm{y}$ |  |

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

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|  | number value per <br> of pounds <br> pound | total <br> value | $150 \mathrm{x}+\mathrm{y}=50$ |
| :--- | :---: | :---: | :---: |
| brand A: x | $150 \phi$ | $150 \mathrm{y} \phi$ |  |
| brand B: y | $180 \phi$ | $\underline{180 \mathrm{y} \phi}$ |  |
| mixture $\overline{50}$ | $159 \phi$ | $\overline{7950}$ |  |

## General Algebra 2 CWS \#4 Unit 3

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\(\left.$$
\begin{array}{lccc} & \begin{array}{l}\text { number value per } \\
\text { of pounds }\end{array}
$$ <br>

pound\end{array}\right)\)| total |
| :---: |
| value |$\quad 150 \mathrm{x}+180 \mathrm{y}=7950$

## General Algebra 2 CWS \#4 Unit 3

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$$ <br>

pound\end{array}\right)\)| total |
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## General Algebra 2 CWS \#4 Unit 3

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|  | number value per <br> of pounds <br> pound | total <br> value | $150 \mathrm{x}+\mathrm{y}=50$ |
| :--- | :---: | :---: | :---: |
| brand A: x | $150 \phi$ | $150 \mathrm{y} \phi$ | 15950 |
| brand B: y | $180 \phi$ | $\underline{180 \mathrm{y} \phi}$ | $15 \mathrm{x}+18 \mathrm{y}$ |
| mixture $\overline{50}$ | $159 \phi$ | $\overline{7950}$ |  |

## General Algebra 2 CWS \#4 Unit 3

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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$\left.\left.\begin{array}{lccc} & \begin{array}{c}\text { number value per } \\ \text { of pounds }\end{array} \\ \text { pound }\end{array}\right) \begin{array}{c}\text { total } \\ \text { value }\end{array}\right)$

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| number <br> of pounds | value per pound | total | $\begin{gathered} x+y=50 \\ 150 x+180 y=7950 \end{gathered}$ |
| :---: | :---: | :---: | :---: |
| brand A: x | 150¢ | 150x¢ | $150 x+180 y=7950$ |
| brand B: y | 180¢ | 180yd | $15 x+18 y=795$ |
| mixture 50 | 159 ¢ | 7950¢ |  |

## General Algebra 2 CWS \#4 Unit 3

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?

| $\begin{aligned} & \text { number } \\ & \text { of pound } \end{aligned}$ | 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¢ | 150x¢ | $150 x+180 y=7950$ |
| brand B: y | 180¢ | 180 y ¢ | $\begin{aligned} & 15 x+18 y=795 \\ & -15 x \end{aligned}$ |
| mixture 50 | 159¢ | 7950¢ |  |

## General Algebra 2 CWS \#4 Unit 3

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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| :---: | :---: | :---: | :---: |
| brand A: x | 150¢ | 150x¢ | $150 x+180 y=7950$ |
| brand B: y | 180¢ | 180 y ¢ | $\begin{aligned} & 15 x+18 y=795 \\ & -15 x- \end{aligned}$ |
| mixture 50 | 159¢ | 7950¢ |  |

## General Algebra 2 CWS \#4 Unit 3

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| :---: | :---: | :---: | :---: |
| brand A: x | 150¢ | 150x¢ | $150 x+180 y=7950$ |
| brand B: y | 180¢ | 180 y ¢ | $\begin{aligned} & 15 x+18 y=795 \\ & -15 x-15 y \end{aligned}$ |
| mixture 50 | 159¢ | 7950¢ |  |

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| number of pounds | value per pound | total <br> value | $x+y=50$ |
| :---: | :---: | :---: | :---: |
| brand A: x | 150¢ | 150x¢ |  |
| brand B: y | 180¢ | 180y¢ | $\begin{gathered} 15 x+18 y=795 \\ -15 x-15 y=-750 \end{gathered}$ |

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| :---: | :---: | :---: | :---: |
| brand A: x | $150 ¢$ | 150x¢ | $150 x+180 y=7950$ |
| brand B: y | 180¢ | 180y¢ | $15 x+18 y=795$ |
| mixture 50 | 159¢ | $7950 ¢$ | $\underline{-15 x-15 y=-750}$ |

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| brand A: x | $150 ¢$ | 150x¢ | $150 x+180 y=7950$ |
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| :---: | :---: | :---: | :---: |
| brand A: x | 150¢ | 150x¢ | $150 x+180 y=7950$ |
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| mixture 50 | 159¢ | 7950¢ |  |

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| brand A: x | 150¢ | 150x¢ | $150 x+180 y=7950$ |
| brand B: y | 180¢ | 180y¢ | $\begin{gathered} 15 x+18 y=795 \\ -15 x-15 y=-750 \end{gathered}$ |
| mixture 50 | 159¢ | 7950¢ | $3 \mathrm{y}=45$ |

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|  |  |  | $\mathbf{y}=$ |

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| mixture 50 | 159¢ | 7950¢ | $3 \mathrm{y}=45$ |
|  |  |  | $y=15$ |

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|  |  |  | $\mathrm{y}=15$ |
|  |  |  | $x+y=50$ |

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|  |  |  | $\mathrm{y}=15$ |
|  |  |  | $x+y=50$ |
|  |  |  | x |

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| (e) $\begin{gathered}\text { number } \\ \text { of pounds }\end{gathered}$ | value per pound | total <br> value | $\begin{gathered} x+y=50 \\ 150 x+180 y=7950 \end{gathered}$ |
| :---: | :---: | :---: | :---: |
| brand A: x | 150¢ | 150x¢ |  |
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|  |  |  | $\mathrm{y}=15$ |
|  |  |  | $x+y=50$ |
|  |  |  | $\mathrm{x}+$ |

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|  |  |  | $\mathrm{y}=15$ |
|  |  |  | $x+y=50$ |
|  |  |  | $x+15$ |

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| , ${ }^{\text {number }}$ | value per pound | total <br> value | $\begin{gathered} x+y=50 \\ 150 x+180 y=7950 \end{gathered}$ |
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|  |  |  | $x+15=50$ |
|  |  |  | $\mathbf{x}=$ |

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|  |  |  | $\mathrm{y}=15$ |
|  |  |  | $x+y=50$ |
|  |  |  | $x+15=50$ |
|  |  |  | $\mathbf{x}=35$ |

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## General Algebra 2 CWS \#4 Unit 3

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?

## General Algebra 2 CWS \#4 Unit 3

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 person:
Second person:

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First person: x
Second person:

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First person: x
Second person: y

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First person: x
Second person: y
total

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First person: x Second person:
total $\frac{y}{200}$

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$$
\mathrm{x}+
$$

First person: x Second person:
total $\frac{y}{200}$

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$$
x+y
$$

First person: x


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$$
x+y=
$$

First person: x


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$$
x+y=200
$$

First person: x


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$$
x+y=200
$$

First person: x Second person: y total 200

## General Algebra 2 CWS \#4 Unit 3

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:
total $\frac{y}{200}$

$$
x+y=200
$$

$$
\mathrm{y}=
$$

## General Algebra 2 CWS \#4 Unit 3

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

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

## General Algebra 2 CWS \#4 Unit 3

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

$$
x+y=200
$$

$y=4 x-$

## General Algebra 2 CWS \#4 Unit 3

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First person: x
Second person: y
total 200

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

## General Algebra 2 CWS \#4 Unit 3

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First person: x
Second person: y
total $200 \quad \mathrm{x}$

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

## General Algebra 2 CWS \#4 Unit 3

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First person: x
Second person: y
total $\overline{200} \quad \mathrm{x}+$

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First person: x
Second person: y

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

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

## General Algebra 2 CWS \#4 Unit 3

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First person: x
Second person: y

$$
x+y=200
$$

$$
\text { total } \quad \overline{200}
$$

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

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First person: x
Second person: y

$$
x+y=200
$$

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

## General Algebra 2 CWS \#4 Unit 3

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First person: x
Second person: y

$$
x+y=200
$$

$$
\text { total } \quad \overline{200}
$$

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

## General Algebra 2 CWS \#4 Unit 3

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

$$
x+y=200
$$

$$
\text { total } \quad \overline{200}
$$

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

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Second person: y

$$
x+y=200
$$

$$
\text { total } \quad \overline{200}
$$

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

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First person: x
Second person: y

$$
x+y=200
$$

$$
\text { total } \quad \overline{200}
$$

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

## General Algebra 2 CWS \#4 Unit 3

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

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

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First person: x
Second person: y

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

## General Algebra 2 CWS \#4 Unit 3

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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

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

## General Algebra 2 CWS \#4 Unit 3

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

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

## General Algebra 2 CWS \#4 Unit 3

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

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

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$$
x+y=200
$$

First person: x
Second person: y

$$
y=4 x-25
$$

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

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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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$$
x+y=200
$$

First person: x
Second person: y

$$
y=4 x-25
$$

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

## General Algebra 2 CWS \#4 Unit 3

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

$$
\begin{gathered}
x+y=200 \\
y=4 x-25 \\
+(4 x-25)=2 \\
5 x-25=200 \\
5 x=225 \\
x=45
\end{gathered}
$$

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

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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 person: x
Second person: y

$$
\begin{gathered}
x+y=200 \\
y=4 x-25 \\
(4 x-25)=2 \\
x-25=200 \\
5 x=225 \\
\mathbf{x}=45
\end{gathered}
$$

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

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First person: x
Second person: y

$$
\begin{gathered}
x+y=200 \\
y=4 x-25 \\
(4 x-25)=2 \\
x-25=200 \\
5 x=225 \\
\mathbf{x}=45
\end{gathered}
$$

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

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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.
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

$$
\begin{gathered}
x+y=200 \\
y=4 x-25 \\
(4 x-25)=2 \\
x-25=200 \\
5 x=225 \\
\mathbf{x}=45
\end{gathered}
$$

$$
\begin{array}{ccl}
\text { total } & \overline{200} & \mathrm{x}+(4 \mathrm{x}-25)=200 \\
5 \mathrm{x}-25=200 & \mathrm{y}=4 \mathrm{x}-25 \\
& & \mathrm{y}=180-25
\end{array}
$$

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First person: x
Second person: y

$$
\begin{gathered}
x+y=200 \\
y=4 x-25 \\
(4 x-25)=2 \\
x-25=200 \\
5 x=225 \\
\mathbf{x}=45
\end{gathered}
$$

$$
\begin{array}{ccc}
\text { total } & \overline{200} & \mathrm{x}+(4 \mathrm{x}-25)=200 \\
5 \mathrm{x}-25=200 & \mathrm{y}=4 \mathrm{x}-25 \\
& 5 \mathrm{x}=225 & \mathrm{y}=180-25 \\
& \mathrm{y}=
\end{array}
$$

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First person: x
Second person: y

$$
\begin{gathered}
x+y=200 \\
y=4 x-25 \\
(4 x-25)=2 \\
x-25=200 \\
5 x=225 \\
\mathbf{x}=45
\end{gathered}
$$

$$
\begin{array}{ccc}
\text { total } & \overline{200} & \mathrm{x}+(4 \mathrm{x}-25)=200 \\
5 \mathrm{x}-25=200 & \mathrm{y}=4 \mathrm{x}-25 \\
& 5 \mathrm{x}=225 & \mathrm{y}=180-25 \\
& \mathrm{y}=\mathbf{1 5 5}
\end{array}
$$

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First person: x
Second person: y

$$
\begin{gathered}
x+y=200 \\
y=4 x-25 \\
(4 x-25)=2 \\
x-25=200 \\
5 x=225 \\
\mathbf{x}=45
\end{gathered}
$$

$$
\begin{array}{ccc}
\text { total } & \overline{200} & \mathrm{x}+(4 \mathrm{x}-25)=200 \\
5 \mathrm{x}-25=200 & \mathrm{y}=4 \mathrm{x}-25 \\
& 5 \mathrm{x}=225 & \mathrm{y}=180-25 \\
& \mathbf{y}=\mathbf{1 5 5}
\end{array}
$$

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

## General Algebra 2 CWS \#4 Unit 3

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 $\$ 5000$, 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?

## General Algebra 2 CWS \#4 Unit 3

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:

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amount
invested
first:
second:

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amount
invested
first: x
second:

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amount
invested
first: x
second: y

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amount
invested
first: x
second: y
total

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amount
invested
first: x
second: y
total \$5000

## General Algebra 2 CWS \#4 Unit 3

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amount
X
invested
first: x
second: y
total \$5000

## General Algebra 2 CWS \#4 Unit 3

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amount

$$
\mathrm{x}+
$$

first: X
second: y
total \$5000

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amount

$$
x+y
$$

first: x
second: y
total \$5000

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amount

$$
x+y=
$$

first: x
second: y
total \$5000

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amount

$$
x+y=5000
$$

first: x
second: y
total \$5000

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amount interest
invested rate
first: x
second: y
total \$5000

$$
x+y=5000
$$

## General Algebra 2 CWS \#4 Unit 3

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 interest
invested rate
first: $x$ 3\%
second: y
total \$5000

$$
x+y=5000
$$

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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.
8. Mary invested $\$ 5000$, 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 | $x+y=5000$ |
| :---: | :---: | :---: |
| first: x | 3\% |  |
| second: y | 4\% |  |
| total \$5000 |  |  |

## General Algebra 2 CWS \#4 Unit 3

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 |  |
| earned |  |  |$\quad 3 \% ~ x+y=5000$

## General Algebra 2 CWS \#4 Unit 3

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?


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| amount invested | interest <br> rate | interest earned | $x+y=5000$ |
| :---: | :---: | :---: | :---: |
| first: X | 3\% | .03x |  |
| second: y | 4\% | .04y |  |

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|  | amount <br> invested | interest <br> rate | interest <br> earned |
| ---: | :---: | :---: | :---: |
| first: x | $3 \%$ | .03 x | $\mathrm{x}+\mathrm{y}=5000$ |
| second: | y | $4 \%$ | .04 y |
| total | $\$ 5000$ |  |  |

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|  | amount <br> invested | interest <br> rate | interest <br> earned |
| ---: | :---: | :---: | :---: |
| first: | x | $3 \%$ | .03 x |
| second: | y | $4 \%$ | $\underline{.04 \mathrm{y}}$ |
| total | $\$ 5000$ |  | $\overline{\$ 185}$ |

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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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$\left.\begin{array}{rccc} & \begin{array}{c}\text { amount } \\ \text { invested }\end{array} & \begin{array}{c}\text { interest } \\ \text { rate }\end{array} & \begin{array}{l}\text { interest } \\ \text { earned }\end{array} \\ \text { first: } & \mathrm{x} & 3 \% & .03 \mathrm{x}\end{array}\right] .03 \mathrm{x}+\mathrm{y}=5000$

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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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$\left.\begin{array}{rccc} & \begin{array}{c}\text { amount } \\ \text { invested }\end{array} & \begin{array}{c}\text { interest } \\ \text { rate }\end{array} & \begin{array}{l}\text { interest } \\ \text { earned }\end{array} \\ \text { first: } & \mathrm{x} & 3 \% & .03 \mathrm{x}\end{array}\right] .03 \mathrm{x}+\mathrm{y}=5000$

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$\left.\begin{array}{rccc} & \begin{array}{c}\text { amount } \\ \text { invested }\end{array} & \begin{array}{c}\text { interest } \\ \text { rate }\end{array} & \begin{array}{l}\text { interest } \\ \text { earned }\end{array}\end{array}\right] .03 \mathrm{x}+.04 \mathrm{y}, \mathrm{y}=5000$

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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.
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?
$\left.\begin{array}{rccc} & \begin{array}{c}\text { amount } \\ \text { invested }\end{array} & \begin{array}{c}\text { interest } \\ \text { rate }\end{array} & \begin{array}{l}\text { interest } \\ \text { earned }\end{array}\end{array}\right] .03 \mathrm{x}+.04 \mathrm{y}=$

## General Algebra 2 CWS \#4 Unit 3

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?
$\left.\begin{array}{rccc} & \begin{array}{c}\text { amount } \\ \text { invested }\end{array} & \begin{array}{c}\text { interest } \\ \text { rate }\end{array} & \begin{array}{c}\text { interest } \\ \text { earned }\end{array} \\ \text { first: } & \mathrm{x} & 3 \% & .03 \mathrm{x}\end{array}\right] .03 \mathrm{x}+.04 \mathrm{y}=185$

## General Algebra 2 CWS \#4 Unit 3

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. ${ }^{\substack{\text { amount } \\ \text { invested }}}$ | interest <br> rate <br> $3 \%$ | interest earned 03x | $\begin{gathered} x+y=5000 \\ .03 x+.04 y=185 \end{gathered}$ |
| :---: | :---: | :---: | :---: |
| first: X | 3\% | .03x |  |
| second: y | 4\% | .04y | 3 x |
| total \$5000 |  | \$185 |  |

## General Algebra 2 CWS \#4 Unit 3

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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\(\left.$$
\begin{array}{rccc} & \begin{array}{c}\text { amount } \\
\text { invested }\end{array} & \begin{array}{c}\text { interest } \\
\text { rate }\end{array}
$$ \& \begin{array}{c}interest <br>

earned\end{array}\end{array}\right]\)| $\mathrm{x}+\mathrm{y}=5000$ |
| :---: |
| first: x | | $3 \%$ |
| :---: |
| second: |
| y |
| total |
| $\$ 5000$ |

## General Algebra 2 CWS \#4 Unit 3

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

## General Algebra 2 CWS \#4 Unit 3

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

## General Algebra 2 CWS \#4 Unit 3

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

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

## General Algebra 2 CWS \#4 Unit 3

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| amount invested | $\begin{gathered} \text { interest } \\ \text { rate } \end{gathered}$ | interest earned | $\begin{gathered} x+y=5000 \\ .03 x+.04 y=185 \end{gathered}$ |
| :---: | :---: | :---: | :---: |
| first: X | 3\% | .03x | $3 \mathrm{x}+4 \mathrm{y}=18,500$ |
| second: y | 4\% | .04y | $\begin{aligned} 3 x+4 y & =18,500 \\ -3 x-3 y & =\end{aligned}$ |
| total \$5000 |  | \$185 |  |

## General Algebra 2 CWS \#4 Unit 3

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| amount <br> invested | interest rate | interest earned | $\begin{gathered} x+y=5000 \\ .03 x+.04 y=185 \end{gathered}$ |
| :---: | :---: | :---: | :---: |
| first: x | 3\% | .03x |  |
| second: y | 4\% | .04y | $\begin{array}{r} 3 x+4 y=18,500 \\ -3 x-3 y=-15,000 \end{array}$ |
| total \$5000 |  | \$185 |  |

## General Algebra 2 CWS \#4 Unit 3

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## General Algebra 2 CWS \#4 Unit 3

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|  | amount <br> invested | interest <br> rate | interest <br> earned |
| ---: | :---: | :---: | :---: |
| first: | x | $3 \%$ | .03 x |
| second: | y | $4 \%$ | $\underline{.04 \mathrm{y}}$ |
| total | $\$ 5000$ |  | $\underline{\$ 185}$ |

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

y

## General Algebra 2 CWS \#4 Unit 3

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| :---: | :---: | :---: | :---: |
| first: X | 3\% | .03x | $3 x+4 y=18,500$ |
| second: y | 4\% | . 04 y | $-3 x-3 y=-15,000$ |
| total \$5000 |  | \$185 |  |
|  |  |  | $\mathbf{y}=$ |

## General Algebra 2 CWS \#4 Unit 3

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| :---: | :---: | :---: | :---: |
| second: y | 4\% | .04y | $\begin{array}{r} 3 x+4 y=18,500 \\ -3 x-3 y=-15,000 \end{array}$ |
| total \$5000 |  | \$185 | $\mathbf{y}=\mathbf{3 , 5 0 0}$ |
|  |  |  | $x+y=5000$ |

## General Algebra 2 CWS \#4 Unit 3

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 | interest <br> earned |
| ---: | :---: | :---: | :---: |
| first: | x | $3 \%$ | .03 x |
| second: | y | $4 \%$ | $\underline{.04 \mathrm{y}}$ |
| total | $\$ 5000$ |  | $\boxed{\$ 185}$ |

$$
\begin{gathered}
x+y=5000 \\
.03 x+.04 y=185 \\
3 x+4 y=18,500 \\
-3 x-3 y=-15,000 \\
\hline \mathbf{y}=\mathbf{3 , 5 0 0} \\
x+y=5000
\end{gathered}
$$

x

## General Algebra 2 CWS \#4 Unit 3

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| :---: | :---: | :---: | :---: |
| second: y | 4\% | .04y | $\begin{aligned} 3 x+4 y & =18,500 \\ -3 x-3 y & =-15,000 \end{aligned}$ |
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|  |  |  | $x+y=5000$ |
|  |  |  | $\mathrm{x}+$ |

## General Algebra 2 CWS \#4 Unit 3

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| total \$5000 |  | \$185 | $\mathbf{y}=\mathbf{3 , 5 0 0}$ |
|  |  |  | $\begin{aligned} & x+y=5000 \\ & x+3500 \end{aligned}$ |

## General Algebra 2 CWS \#4 Unit 3

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| first: x second: $\qquad$ total $\$ 5000$ |  | $\begin{gathered} \text { interest } \\ \text { rate } \\ 3 \% \end{gathered}$ | $\begin{aligned} & \text { interest } \\ & \text { earned } \\ & .03 \mathrm{x} \end{aligned}$ | $\begin{gathered} x+y=5000 \\ .03 x+.04 y=185 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |
|  |  | 4\% | .04y | $3 x+4 y=18,500$ |
|  |  |  | \$185 | $\underline{-3 x-3 y=-15,000}$ |
|  |  |  |  | $\mathbf{y}=\mathbf{3 , 5 0 0}$ |
|  |  |  |  | $x+y=5000$ |
|  |  |  |  | $x+3500=$ |

## General Algebra 2 CWS \#4 Unit 3

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## General Algebra 2 CWS \#4 Unit 3

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|  | $\begin{gathered} \text { interest } \\ \text { rate } \\ 3 \% \end{gathered}$ | interest earned .03x | $\begin{gathered} x+y=5000 \\ .03 x+.04 y=185 \end{gathered}$ |
| :---: | :---: | :---: | :---: |
| second: y | 4\% | .04y | $\begin{array}{r} 3 x+4 y=18,500 \\ -3 x-3 y=-15,000 \end{array}$ |
| total \$5000 |  | \$185 | $\mathbf{y}=\mathbf{3 , 5 0 0}$ |
|  |  |  | $\begin{gathered} x+y=5000 \\ x+3500=5000 \end{gathered}$ |
|  |  |  | $\mathbf{x}=1500$ |

## General Algebra 2 CWS \#4 Unit 3

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## General Algebra 2 CWS \#4 Unit 3

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?

## General Algebra 2 CWS \#4 Unit 3

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first:
second:

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volume

of solution first:
second:

## General Algebra 2 CWS \#4 Unit 3

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```
            volume
    of solution
first: x
second:
```


## General Algebra 2 CWS \#4 Unit 3

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```
            volume
            of solution
        first: x
second: y
```


## General Algebra 2 CWS \#4 Unit 3

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|  | volume <br> of solution |
| ---: | :--- |
| first: | x |
| second: | y |
| total |  |

## General Algebra 2 CWS \#4 Unit 3

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| volume <br> of solution |  |
| ---: | :---: |
| first: | x |
| second: | $\frac{\mathrm{y}}{50 \mathrm{cc}}$ |

## General Algebra 2 CWS \#4 Unit 3

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of solution first: x
second: $\frac{y}{50 \mathrm{cc}}$
total

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x +
volume
of solution
first: x
second: $\frac{\mathrm{y}}{\text { total }} \frac{50 \mathrm{cc}}{}$

## General Algebra 2 CWS \#4 Unit 3

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$$
x+y
$$

volume
of solution
first: x
second: $\frac{\mathrm{y}}{50 \mathrm{cc}}$

## General Algebra 2 CWS \#4 Unit 3

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$$
x+y=
$$

volume
of solution
first: x
second: $\frac{\mathrm{y}}{\text { total }} \frac{50 \mathrm{cc}}{}$

## General Algebra 2 CWS \#4 Unit 3

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
of solution
first: x
second: $\frac{\mathrm{y}}{50 \mathrm{cc}}$

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$$
x+y=50
$$

```
volume percent
of solution acid
``` first: x
second: \(\frac{y}{50 \mathrm{cc}}\)

\section*{General Algebra 2 CWS \#4 Unit 3}

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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\[
x+y=50
\]
\begin{tabular}{rlr} 
& \begin{tabular}{c} 
volume \\
of solution
\end{tabular} & \begin{tabular}{c} 
percent \\
acid
\end{tabular} \\
first: & x & \(35 \%\) \\
second: & y & \\
total & 50 cc &
\end{tabular}

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\[
x+y=50
\]
\begin{tabular}{rcr} 
& \begin{tabular}{rl} 
volume \\
of solution
\end{tabular} & \begin{tabular}{c} 
percent \\
acid
\end{tabular} \\
first:
\end{tabular}\(\quad \mathrm{x} \quad 35 \%\)

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\[
x+y=50
\]
\begin{tabular}{rcc} 
& \begin{tabular}{c} 
volume \\
of solution
\end{tabular} & \begin{tabular}{c} 
percent \\
acid
\end{tabular} \\
first: & X & \(35 \%\) \\
second: & y & \(10 \%\) \\
total & \(\frac{50 \text { cc }}{}\) & \(25 \%\)
\end{tabular}

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\[
x+y=50
\]
\begin{tabular}{rcc} 
& \begin{tabular}{c} 
volume \\
of solution
\end{tabular} & \begin{tabular}{c} 
percent \\
acid
\end{tabular} \\
first: & x & \(35 \%\) \\
second: & y & \(10 \%\) \\
total & \(\frac{50 \mathrm{cc}}{}\) & \(25 \%\)
\end{tabular}

\section*{General Algebra 2 CWS \#4 Unit 3}

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?
\[
x+y=50
\]
\begin{tabular}{rccc} 
& \begin{tabular}{c} 
volume \\
of solution
\end{tabular} & \begin{tabular}{c} 
percent \\
acid
\end{tabular} & \begin{tabular}{c} 
volume \\
of acid
\end{tabular} \\
first: & x & \(35 \%\) & .35 x \\
second: & y & \(10 \%\) & \\
total & \(\frac{50 \mathrm{cc}}{}\) & \(25 \%\) &
\end{tabular}

\section*{General Algebra 2 CWS \#4 Unit 3}

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 50cc of a solution that is \(25 \%\) acid?
\[
x+y=50
\]
\begin{tabular}{rccc} 
& \begin{tabular}{c} 
volume \\
of solution
\end{tabular} & \begin{tabular}{c} 
percent \\
acid
\end{tabular} & \begin{tabular}{c} 
volume \\
of acid
\end{tabular} \\
first: & x & \(35 \%\) & .35 x \\
second: & y & \(10 \%\) & .10 y \\
total & \(\frac{50 \mathrm{cc}}{}\) & \(25 \%\) &
\end{tabular}

\section*{General Algebra 2 CWS \#4 Unit 3}

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?
\[
x+y=50
\]
\begin{tabular}{rccc}
\multicolumn{2}{c}{\begin{tabular}{c} 
volume \\
of solution
\end{tabular}} & \begin{tabular}{c} 
percent \\
acid
\end{tabular} & \begin{tabular}{c} 
volume \\
of acid
\end{tabular} \\
first: & x & \(35 \%\) & .35 x \\
second: & y & \(10 \%\) & .10 y \\
total & 50 cc & \(25 \%\) &
\end{tabular}

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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.
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?
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x+y=50
\]
\begin{tabular}{rccc}
\multicolumn{2}{c}{\begin{tabular}{c} 
volume \\
of solution
\end{tabular}} & \begin{tabular}{c} 
percent \\
acid
\end{tabular} & \begin{tabular}{c} 
volume \\
of acid
\end{tabular} \\
first: & x & \(35 \%\) & .35 x \\
second: & y & \(10 \%\) & \(\underline{.10 \mathrm{y}}\) \\
total & \(\overline{50 \mathrm{cc}}\) & \(25 \%\) & \(\underline{12.5 \mathrm{cc}}\)
\end{tabular}

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volume \\
of solution
\end{tabular}} & \begin{tabular}{c} 
percent \\
acid
\end{tabular} & \begin{tabular}{c} 
volume \\
of acid
\end{tabular} \\
first: & x & \(35 \%\) & .35 x \\
second: & y & \(10 \%\) & \(\underline{.10 \mathrm{y}}\) \\
total & \(\overline{50 \mathrm{cc}}\) & \(25 \%\) & \(\underline{12.5 \mathrm{cc}}\)
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\begin{tabular}{rccl} 
& \begin{tabular}{c} 
volume \\
of solution
\end{tabular} & \begin{tabular}{c} 
percent \\
acid
\end{tabular} & \begin{tabular}{c} 
volume \\
of acid
\end{tabular} \\
first: & x & \(35 \%\) & .35 x \\
second: & y & \(10 \%\) & \(\underline{.10 \mathrm{y}}\) \\
total & \(\overline{50 \mathrm{cc}}\) & \(25 \%\) & \(\overline{12.5 \mathrm{cc}}\)
\end{tabular}

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percent \\
acid
\end{tabular} & \begin{tabular}{c} 
volume \\
of acid
\end{tabular} \\
first: & x & \(35 \%\) & .35 x \\
second: & y & \(10 \%\) & \(\underline{.10 \mathrm{y}}\) \\
total & \(\overline{50 \mathrm{cc}}\) & \(25 \%\) & \(\underline{12.5 \mathrm{cc}}\)
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volume \\
of solution
\end{tabular} & \begin{tabular}{c} 
percent \\
acid
\end{tabular} & \begin{tabular}{l} 
volume \\
of acid
\end{tabular} \\
first: & x & \(35 \%\) & .35 x \\
second: & y & \(10 \%\) & .10 y \\
total & \(\overline{50 \mathrm{cc}}\) & \(25 \%\) & \(\underline{12.5 \mathrm{cc}}\)
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volume \\
of solution
\end{tabular}} & \begin{tabular}{c} 
percent \\
acid
\end{tabular} & \begin{tabular}{c} 
volume \\
of acid
\end{tabular} \\
first: x & \(35 \%\) & .35 x \\
second: & \(\frac{\mathrm{y}}{}\) & \(10 \%\) & \(\underline{.10 \mathrm{y}}\) \\
total & \(\overline{50 \mathrm{cc}}\) & \(25 \%\) & \(\overline{12.5 \mathrm{cc}}\)
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volume \\
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percent \\
acid
\end{tabular} & \begin{tabular}{c} 
volume \\
of acid
\end{tabular} \\
first: & x & \(35 \%\) & .35 x \\
second: & y & \(10 \%\) & \(\underline{.10 \mathrm{y}}\) \\
total & \(\overline{50 \mathrm{cc}}\) & \(25 \%\) & \(\overline{12.5 \mathrm{cc}}\)
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percent \\
acid
\end{tabular} & \begin{tabular}{c} 
volume \\
of acid
\end{tabular} \\
first: & x & \(35 \%\) & .35 x \\
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total & \(\overline{50 \mathrm{cc}}\) & \(25 \%\) & \(\overline{12.5 \mathrm{cc}}\)
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volume \\
of acid
\end{tabular} \\
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percent \\
acid
\end{tabular} & \begin{tabular}{c} 
volume \\
of acid
\end{tabular} \\
first: x & \(35 \%\) & .35 x \\
second: & y & \(10 \%\) & \(\underline{.10 \mathrm{y}}\) \\
total & \(\overline{50 \mathrm{cc}}\) & \(25 \%\) & \(\overline{12.5 \mathrm{cc}}\)
\end{tabular}
\[
\begin{gathered}
x+y=50 \\
.35 x+.10 y=12.5 \\
35 x+10 y=
\end{gathered}
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\end{tabular} & \begin{tabular}{c} 
volume \\
of acid
\end{tabular} \\
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second: & y & \(10 \%\) & \(\underline{.10 \mathrm{y}}\) \\
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\end{tabular}} & \begin{tabular}{c} 
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acid
\end{tabular} & \begin{tabular}{c} 
volume \\
of acid
\end{tabular} \\
first: & x & \(35 \%\) & .35 x \\
second: & y & \(10 \%\) & \(\underline{.10 \mathrm{y}}\) \\
total & \(\overline{50 \mathrm{cc}}\) & \(25 \%\) & \(\overline{12.5 \mathrm{cc}}\)
\end{tabular}
\[
\begin{gathered}
x+y=50 \\
.35 x+.10 y=12.5 \\
35 x+10 y=1250 \\
-10 x
\end{gathered}
\]

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volume \\
of solution
\end{tabular}} & \begin{tabular}{c} 
percent \\
acid
\end{tabular} & \begin{tabular}{c} 
volume \\
of acid
\end{tabular} \\
first: & x & \(35 \%\) & .35 x \\
second: & y & \(10 \%\) & \(\underline{.10 \mathrm{y}}\) \\
total & \(\overline{50 \mathrm{cc}}\) & \(25 \%\) & \(\overline{12.5 \mathrm{cc}}\)
\end{tabular}
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x+y=50 \\
.35 x+.10 y=12.5 \\
35 x+10 y=1250 \\
-10 x-
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volume \\
of solution
\end{tabular}} & \begin{tabular}{c} 
percent \\
acid
\end{tabular} & \begin{tabular}{c} 
volume \\
of acid
\end{tabular} \\
first: & x & \(35 \%\) & .35 x \\
second: & y & \(10 \%\) & \(\underline{.10 \mathrm{y}}\) \\
total & \(\overline{50 \mathrm{cc}}\) & \(25 \%\) & \(\overline{12.5 \mathrm{cc}}\)
\end{tabular}
\[
\begin{gathered}
x+y=50 \\
.35 x+.10 y=12.5 \\
35 x+10 y=1250 \\
-10 x-10 y
\end{gathered}
\]

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\begin{tabular}{cccc} 
& \multicolumn{2}{c}{\begin{tabular}{c} 
volume \\
of solution
\end{tabular}} & \begin{tabular}{c} 
percent \\
acid
\end{tabular} \\
first: & x & \(35 \%\) & \begin{tabular}{l} 
volume \\
of acid
\end{tabular} \\
second: & y & \(10 \%\) & \(\underline{.35 \mathrm{x}}\) \\
total & \(\overline{50 \mathrm{cc}}\) & \(25 \%\) & \(\underline{12.5 \mathrm{cc}}\)
\end{tabular}
\[
\begin{gathered}
x+y=50 \\
.35 x+.10 y=12.5 \\
35 x+10 y=1250 \\
-10 x-10 y=
\end{gathered}
\]

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& \begin{tabular}{c} 
volume \\
of solution
\end{tabular} & \begin{tabular}{c} 
percent \\
acid
\end{tabular} & \begin{tabular}{c} 
volume \\
of acid
\end{tabular} \\
first: & x & \(35 \%\) & .35 x \\
second: & y & \(10 \%\) & \(\underline{.10 \mathrm{y}}\) \\
total & \(\overline{50 \mathrm{cc}}\) & \(25 \%\) & \(\overline{12.5 \mathrm{cc}}\)
\end{tabular}
\[
\begin{gathered}
x+y=50 \\
.35 x+.10 y=12.5 \\
35 x+10 y=1250 \\
-10 x-10 y=-500
\end{gathered}
\]

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\begin{tabular}{rccc} 
& \begin{tabular}{c} 
volume \\
of solution
\end{tabular} & \begin{tabular}{c} 
percent \\
acid
\end{tabular} & \begin{tabular}{c} 
volume \\
of acid
\end{tabular} \\
first: & x & \(35 \%\) & .35 x \\
second: & y & \(10 \%\) & \(\underline{.10 \mathrm{y}}\) \\
total & \(\overline{50 \mathrm{cc}}\) & \(25 \%\) & \(\overline{12.5 \mathrm{cc}}\)
\end{tabular}
\[
\begin{gathered}
x+y=50 \\
.35 x+.10 y=12.5 \\
35 x+10 y=1250 \\
-10 x-10 y=-500 \\
\hline
\end{gathered}
\]

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volume \\
of solution
\end{tabular}} & \begin{tabular}{c} 
percent \\
acid
\end{tabular} & \begin{tabular}{c} 
volume \\
of acid
\end{tabular} \\
first: & x & \(35 \%\) & .35 x \\
second: & y & \(10 \%\) & \(\underline{.10 \mathrm{y}}\) \\
total & \(\overline{50 \mathrm{cc}}\) & \(25 \%\) & \(\overline{12.5 \mathrm{cc}}\)
\end{tabular}
\[
\begin{gathered}
x+y=50 \\
.35 x+.10 y=12.5 \\
35 x+10 y=1250 \\
-10 x-10 y=-500 \\
\hline 25 x
\end{gathered}
\]

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\begin{tabular}{rlllc} 
& \begin{tabular}{c} 
volume \\
of solution
\end{tabular} & \begin{tabular}{c} 
percent \\
acid
\end{tabular} & \begin{tabular}{c} 
volume \\
of acid
\end{tabular} & \(.35 \mathrm{x}+.10 \mathrm{y}=12.5\) \\
first: & x & \(35 \%\) & .35 x & \(35 \mathrm{x}+10 \mathrm{y}=1250\) \\
second: & y & \(10 \%\) & .10 y & \(-10 \mathrm{x}-10 \mathrm{y}=-500\) \\
total & \(\overline{50 \mathrm{cc}}\) & \(25 \%\) & \(\underline{12.5 \mathrm{cc}}\) & \(25 \mathrm{x}=\)
\end{tabular}

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volume \\
of solution
\end{tabular}} & \begin{tabular}{c} 
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acid
\end{tabular} & \begin{tabular}{c} 
volume \\
of acid
\end{tabular} \\
first: & x & \(35 \%\) & .35 x \\
second: & y & \(10 \%\) & \(\underline{.10 \mathrm{y}}\) \\
total & \(\overline{50 \mathrm{cc}}\) & \(25 \%\) & \(\overline{12.5 \mathrm{cc}}\)
\end{tabular}
\[
\begin{gathered}
x+y=50 \\
.35 x+.10 y=12.5 \\
35 x+10 y=1250 \\
-\frac{10 x-10 y=-500}{25 x}=750
\end{gathered}
\]

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volume \\
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total & \(\overline{50 \mathrm{cc}}\) & \(25 \%\) & \(\underline{12.5 \mathrm{cc}}\)
\end{tabular}
\[
\begin{gathered}
x+y=50 \\
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35 x+10 y=1250 \\
-10 x-10 y=-500 \\
\hline 25 x=750 \\
\mathbf{x}=
\end{gathered}
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\begin{gathered}
x+y=50 \\
.35 x+.10 y=12.5 \\
35 x+10 y=1250 \\
-10 x-10 y=-500 \\
\hline 25 x=750 \\
\mathbf{x}=\mathbf{3 0}
\end{gathered}
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\hline 25 x=750 \\
\mathbf{x}=\mathbf{3 0} \\
x+y=50
\end{gathered}
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\hline 25 x=750 \\
\mathbf{x}=\mathbf{3 0} \\
x+y=50 \\
30
\end{gathered}
\]

\section*{General Algebra 2 CWS \#4 Unit 3}

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 50cc of a solution that is \(25 \%\) acid?
\begin{tabular}{rccc}
\multicolumn{2}{c}{\begin{tabular}{c} 
volume \\
of solution
\end{tabular}} & \begin{tabular}{c} 
percent \\
acid
\end{tabular} & \begin{tabular}{c} 
volume \\
of acid
\end{tabular} \\
first: & x & \(35 \%\) & .35 x \\
second: & y & \(10 \%\) & \(\underline{.10 \mathrm{y}}\) \\
total & \(\overline{50 \mathrm{cc}}\) & \(25 \%\) & \(\underline{12.5 \mathrm{cc}}\)
\end{tabular}
\[
\begin{gathered}
x+y=50 \\
.35 x+.10 y=12.5 \\
35 x+10 y=1250 \\
-10 x-10 y=-500 \\
\hline 25 x=750 \\
\mathbf{x}=\mathbf{3 0} \\
x+y=50 \\
30+
\end{gathered}
\]

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volume \\
of solution
\end{tabular}} & \begin{tabular}{c} 
percent \\
acid
\end{tabular} & \begin{tabular}{c} 
volume \\
of acid
\end{tabular} \\
first: & x & \(35 \%\) & .35 x \\
second: & y & \(10 \%\) & \(\underline{.10 \mathrm{y}}\) \\
total & \(\overline{50 \mathrm{cc}}\) & \(25 \%\) & \(\underline{12.5 \mathrm{cc}}\)
\end{tabular}
\[
\begin{gathered}
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35 x+10 y=1250 \\
-10 x-10 y=-500 \\
\hline 25 x=750 \\
\mathbf{x}=\mathbf{3 0} \\
x+y=50 \\
30+y
\end{gathered}
\]

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of solution
\end{tabular}} & \begin{tabular}{c} 
percent \\
acid
\end{tabular} & \begin{tabular}{c} 
volume \\
of acid
\end{tabular} \\
first: & x & \(35 \%\) & .35 x \\
second: & y & \(10 \%\) & \(\underline{.10 \mathrm{y}}\) \\
total & \(\overline{50 \mathrm{cc}}\) & \(25 \%\) & \(\underline{12.5 \mathrm{cc}}\)
\end{tabular}
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\begin{gathered}
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35 x+10 y=1250 \\
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\hline 25 x=750 \\
\mathbf{x}=\mathbf{3 0} \\
x+y=50 \\
30+y=
\end{gathered}
\]

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\multicolumn{2}{c}{\begin{tabular}{c} 
volume \\
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\end{tabular}} & \begin{tabular}{c} 
percent \\
acid
\end{tabular} & \begin{tabular}{c} 
volume \\
of acid
\end{tabular} \\
first: & x & \(35 \%\) & .35 x \\
second: & y & \(10 \%\) & \(\underline{.10 \mathrm{y}}\) \\
total & \(\overline{50 \mathrm{cc}}\) & \(25 \%\) & \(\underline{12.5 \mathrm{cc}}\)
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\begin{gathered}
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35 x+10 y=1250 \\
-10 x-10 y=-500 \\
\hline 25 x=750 \\
x=30 \\
x+y=50 \\
30+y=50
\end{gathered}
\]

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volume \\
of solution
\end{tabular}} & \begin{tabular}{c} 
percent \\
acid
\end{tabular} & \begin{tabular}{c} 
volume \\
of acid
\end{tabular} \\
first: & x & \(35 \%\) & .35 x \\
second: & y & \(10 \%\) & \(\underline{.10 \mathrm{y}}\) \\
total & \(\overline{50 \mathrm{cc}}\) & \(25 \%\) & \(\underline{12.5 \mathrm{cc}}\)
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\begin{gathered}
x+y=50 \\
.35 x+.10 y=12.5 \\
35 x+10 y=1250 \\
-10 x-10 y=-500 \\
\hline 25 x=750 \\
x=30 \\
x+y=50 \\
30+y=50 \\
y=
\end{gathered}
\]

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volume \\
of solution
\end{tabular}} & \begin{tabular}{c} 
percent \\
acid
\end{tabular} & \begin{tabular}{c} 
volume \\
of acid
\end{tabular} \\
first: & x & \(35 \%\) & .35 x \\
second: & y & \(10 \%\) & \(\underline{.10 \mathrm{y}}\) \\
total & \(\overline{50 \mathrm{cc}}\) & \(25 \%\) & \(\underline{12.5 \mathrm{cc}}\)
\end{tabular}
\[
\begin{gathered}
x+y=50 \\
.35 x+.10 y=12.5 \\
35 x+10 y=1250 \\
-10 x-10 y=-500 \\
\hline 25 x=750 \\
\mathbf{x}=\mathbf{3 0} \\
x+y=50 \\
30+y=50 \\
y=\mathbf{2 0}
\end{gathered}
\]

\section*{General Algebra 2 CWS \#4 Unit 3}

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{tabular}{|c|c|c|c|c|}
\hline & \begin{tabular}{l}
volume \\
of solution
\end{tabular} & percent acid & \begin{tabular}{l}
volume \\
of acid
\end{tabular} & \(.35 x+.10 y=12.5\) \\
\hline first: & X & 35\% & . 35 x & \(35 x+10 y=1250\) \\
\hline second: & y & 10\% & . 10 y & \(-10 x-10 y=-500\) \\
\hline total & 50 cc & 25\% & 12.5 cc & \(25 \mathrm{x}=750\) \\
\hline & & & & \(\mathbf{x}=30\) \\
\hline
\end{tabular}

She should use 30 cc of the \(35 \%\) solution and 20 cc of the \(\mathbf{1 0 \%}\) solution.
\[
\begin{gathered}
x+y=50 \\
.35 x+.10 y=12.5 \\
35 x+10 y=1250 \\
-10 x-10 y=-500 \\
\hline 25 x=750 \\
\mathbf{x}=\mathbf{3 0}
\end{gathered}
\]
\[
x+y=50
\]
\[
30+y=50
\]
\[
\mathbf{y}=\mathbf{2 0}
\]

\section*{General Algebra 2 CWS \#4 Unit 3}

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?

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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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burger:
fries:

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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:

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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.
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: \(\quad \mathrm{x} \not \subset\)
fries:

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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.
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: \(\mathrm{x} \not \subset\)
fries: y \(\varnothing\)

\section*{General Algebra 2 CWS \#4 Unit 3}

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{tabular}{ll} 
& \(6 x\) \\
cost \\
each \\
x \(\notin\) \\
\(y \notin\)
\end{tabular}

\section*{General Algebra 2 CWS \#4 Unit 3}

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{tabular}{ll} 
& \(6 x+\) \\
cost \\
each \\
x申 \\
yф & \\
\end{tabular}

\section*{General Algebra 2 CWS \#4 Unit 3}

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: \(\mathrm{x} \varnothing\)
fries: y \(\varnothing\)

\section*{General Algebra 2 CWS \#4 Unit 3}

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: \(\mathrm{x} \not \subset\)
fries: y \(\varnothing\)

\section*{General Algebra 2 CWS \#4 Unit 3}

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: \(\mathrm{x} \not \subset\)
fries: \(y 申\)

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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.
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: \(\mathrm{x} \varnothing\)
fries: y \(\not \subset\)

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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.
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
\(3 \mathrm{x}+\)
burger: \(\mathrm{x} \not \subset\)
fries: y \(\varnothing\)

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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?
\[
\begin{array}{ll} 
& 6 x+4 y=870 \\
\text { cost } & 3 x+5 y \\
\text { each } & 3 x+5
\end{array}
\]
burger: \(\quad \mathrm{x} \varnothing\)
fries: \(\quad\) у \(\varnothing\)

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\[
\begin{array}{ll} 
& 6 x+4 y=870 \\
\text { cost } & 3 x+5 y= \\
\text { each } & 3 x+
\end{array}
\]
burger: \(\mathrm{x} \varnothing\)
fries: y \(\not \subset\)

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\[
\begin{array}{ll} 
& 6 x+4 y=870 \\
\text { cost } & 3 x+5 y=660 \\
\text { each } & 3 x+5
\end{array}
\]
burger: \(\quad \mathrm{x} \not \subset\)
fries: \(\quad\) у \(\varnothing\)

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\[
6 x+4 y=870
\]
cost
each
\[
3 x+5 y=660
\]
burger: \(\mathrm{x} \not \subset\) 30x
fries: y \(\varnothing\)

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\[
6 x+4 y=870
\]
cost
each
\[
3 x+5 y=660
\]
burger: \(\mathrm{x} \notin \quad 30 \mathrm{x}+\)
fries: y \(\varnothing\)

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\[
6 x+4 y=870
\]
cost
each
\[
3 x+5 y=660
\]
burger: \(x \notin \quad 30 x+20 y\)
fries: y \(\varnothing\)

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\[
6 x+4 y=870
\]
cost
each
\[
3 x+5 y=660
\]
burger: \(x \notin \quad 30 x+20 y=\)
fries: y \(\varnothing\)

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\text { cost } & 3 x+5 y=660 \\
\text { each } & 3 x+
\end{array}
\]
burger: \(\quad x \notin \quad 30 x+20 y=4350\)
fries: y \(\varnothing\)

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\[
6 x+4 y=870
\]
cost
each
\[
3 x+5 y=660
\]
burger: \(\quad x \not \subset \quad 30 x+20 y=4350\)
fries: \(\quad \mathrm{y} \varnothing \quad-12 \mathrm{x}\)

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\begin{array}{ll} 
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\text { cost } & 3 x+5 y=660 \\
\text { each } & 3 x+5
\end{array}
\]
burger: \(\quad x \notin \quad 30 x+20 y=4350\)
fries: \(\quad y \notin \quad-12 x-\)

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\[
6 x+4 y=870
\]
cost
each
\[
3 x+5 y=660
\]
burger: \(x \notin \quad 30 x+20 y=4350\)
fries: \(y 申 \quad-12 x-20 y\)

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\[
6 x+4 y=870
\]
cost
each
\[
3 x+5 y=660
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\[
6 x+4 y=870
\]
cost
each
\[
3 x+5 y=660
\]
burger: \(\quad x \notin \quad 30 x+20 y=4350\)
fries: \(\quad y \notin \quad-12 x-20 y=-2640\)

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\[
6 x+4 y=870
\]
cost
each
\[
3 x+5 y=660
\]
burger: \(\quad x \not \subset \quad 30 x+20 y=4350\)
fries: \(y \subset \quad-12 x-20 y=-2640\)

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\[
6 x+4 y=870
\]
cost
each
\[
3 x+5 y=660
\]
burger: \(x \notin \quad 30 x+20 y=4350\)
fries: \(\quad y \varnothing \quad-12 x-20 y=-2640\)
18x

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\section*{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: \(x \notin \quad 30 x+20 y=4350\)
fries: \(\quad \mathrm{y} \notin \quad-12 \mathrm{x}-20 \mathrm{y}=-2640\)
\(18 \mathrm{x}=\)

\section*{General Algebra 2 CWS \#4 Unit 3}

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\[
6 x+4 y=870
\]
cost
each
\[
3 x+5 y=660
\]
burger: \(x \notin \quad 30 x+20 y=4350\)
fries: \(\quad y \notin \quad-12 x-20 y=-2640\)
\[
18 x=1710
\]

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\section*{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: \(\quad x \notin \quad 30 x+20 y=4350\)
fries: \(\quad y \varnothing \quad-12 x-20 y=-2640\)
\[
18 x=1710
\]

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\[
\begin{array}{ll} 
& 6 x+4 y=870 \\
\text { cost } & 3 x+5 y=660 \\
\text { each } & 3 x+5
\end{array}
\]
burger: \(\quad x \notin \quad 30 x+20 y=4350\)
fries: \(\quad y \varnothing \quad-12 x-20 y=-2640\)
\[
\begin{aligned}
18 \mathrm{x} & =1710 \\
\mathbf{x} & =
\end{aligned}
\]

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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: \(\quad x \notin \quad 30 x+20 y=4350\)
fries: \(\quad y \varnothing \quad-12 x-20 y=-2640\)
\[
\begin{aligned}
18 \mathrm{x} & =1710 \\
\mathbf{x} & =\mathbf{9 5}
\end{aligned}
\]

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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.
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: \(\quad \mathrm{x} \not \subset\)
\[
30 x+20 y=4350
\]
\[
6 x+4 y=870
\]
fries: \(\quad\) у \(\varnothing\)
\[
\begin{aligned}
-12 x-20 y & =-2640 \\
18 x & =1710 \\
\mathbf{x} & =\mathbf{9 5}
\end{aligned}
\]

\section*{General Algebra 2 CWS \#4 Unit 3}

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

\section*{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?
\[
\begin{array}{ll} 
& 6 x+4 y=870 \\
\text { cost } & 3 x+5 y=660 \\
\text { each } & 3 x+2
\end{array}
\]
burger: x \(\varnothing\)
\[
30 x+20 y=4350
\]
\[
6 x+4 y=870
\]
fries: \(\quad\) у \(\varnothing\)
\[
\begin{gathered}
-12 x-20 y=-2640 \\
18 x=1710 \\
\mathbf{x}=\mathbf{9 5}
\end{gathered}
\]

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6 x+4 y=870
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fries: \(\quad\) y \(\varnothing\)
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\end{array}
\]
burger: x \(\varnothing\)
\[
30 x+20 y=4350
\]
\[
6 x+4 y=870
\]
fries: \(y \not \subset\)
\[
\begin{gathered}
-12 x-20 y=-2640 \\
18 x=1710 \\
\mathbf{x}=\mathbf{9 5}
\end{gathered}
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\mathbf{x}=\mathbf{9 5}
\end{gathered}
\]
\[
-6 x-10 y=-1320
\]

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burger: \(\quad \mathrm{x} \not \subset\)
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\]
cost
each
burger: \(\mathrm{x} \varnothing\)
\[
30 x+20 y=4350
\]
\[
-12 x-20 y=-2640
\]
\[
18 x=1710
\]
\[
x=95
\]

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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.

\section*{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: \(\mathrm{x} \varnothing\)
\[
30 x+20 y=4350
\]
\[
\frac{-12 x-20 y=-2640}{18 x=1710} \quad \frac{-6 x-10 y=}{-6 y=}
\]
\[
x=95
\]

\section*{General Algebra 2 CWS \#4 Unit 3}

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

\section*{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?
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burger: \(\mathrm{x} \varnothing\)
\[
30 x+20 y=4350
\]
\[
-12 x-20 y=-2640
\]
\[
18 x=1710
\]
\[
x=95
\]
\begin{tabular}{rl}
\(6 x+4 y\) & \(=870\) \\
\(-6 x-10 y\) & \(=-1320\) \\
\hline\(-6 y\) & \(=-450\)
\end{tabular}

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6 x+4 y=870
\]
\[
\begin{aligned}
& \begin{array}{l}
\text { cost } \\
\text { each }
\end{array}
\end{aligned} \quad 3 x+5 y=660
\]
burger: \(\mathrm{x} \varnothing\)
\[
30 x+20 y=4350
\]
\[
6 x+4 y=870
\]
fries: y \(\varnothing\)
\[
\begin{array}{ccc}
\frac{-12 x-20 y=-2640}{18 x}=1710 \\
& & -6 x-10 y=-132 \\
\mathbf{x}=\mathbf{9 5} & \mathbf{y}
\end{array}
\]

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\begin{aligned}
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\text { cost } \\
\text { each }
\end{array}
\end{aligned} \quad 3 x+5 y=660
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burger: \(\mathrm{x} \varnothing\)
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30 x+20 y=4350
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\[
6 x+4 y=870
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fries: y \(\varnothing\)
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\begin{array}{cc}
\frac{-12 x-20 y=-2640}{18 x}=1710 \\
\mathbf{x}=\mathbf{9 5}
\end{array} \quad \begin{gathered}
-6 x-10 y=-1320 \\
\cline { 1 - 2 }=-6 y=-450 \\
y
\end{gathered}
\]

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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.

\section*{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?
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\text { each }
\end{array}
\end{aligned} \quad 3 x+5 y=660
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burger: \(\mathrm{x} \varnothing\)
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30 x+20 y=4350
\]
\[
6 x+4 y=870
\]
fries: y \(\varnothing\)
\[
\begin{array}{cc}
-12 x-20 y=-2640 \\
\hline 18 x=1710 \\
\mathbf{x}=\mathbf{9 5}
\end{array} \quad \begin{aligned}
-6 x-10 y & =-132 \\
y & =-450 \\
y & =75
\end{aligned}
\]

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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.
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?
\[
\begin{array}{ll} 
& 6 x+4 y=870 \\
\text { cost } & 3 x+5 y=660 \\
\text { each } & 3 x+
\end{array}
\]
burger: \(\mathrm{x} \not \subset\)
fries: y \(\not \subset\)
\[
\begin{aligned}
& 30 x+20 y=4350 \\
& 6 x+4 y=870 \\
& -12 x-20 y=-2640 \\
& 18 \mathrm{x}=1710 \\
& \mathrm{x}=95 \\
& \begin{aligned}
-6 x-10 y & =-1320 \\
\hline-6 y & =-450 \\
y & =75
\end{aligned}
\end{aligned}
\]

A burger costs \(95 ¢\) each, and an order of fries costs \(75 申\) each.

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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.
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?

\section*{Good luck on your homework !!}
burger: \(\mathrm{x} \notin\)
\[
\begin{aligned}
& 30 x+20 y=4350 \\
& 6 x+4 y=870 \\
& -12 x-20 y=-2640 \quad-6 x-10 y=-1320 \\
& 18 \mathrm{x}=1710 \\
& -6 y=-450 \\
& y=75
\end{aligned}
\]
fries: y \(\varnothing\)

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

