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

Algebra I Class Worksheet #4 Unit 9

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

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

Algebra I Class Worksheet #4 Unit 9

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

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

first:

second:

Algebra I Class Worksheet #4 Unit 9

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first: x

second: y

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first: x

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Algebra I Class Worksheet #4 Unit 9

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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

Algebra I Class Worksheet #4 Unit 9

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

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

first: x **x + y = 20**

second: y

Algebra I Class Worksheet #4 Unit 9

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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 $x =$

Algebra I Class Worksheet #4 Unit 9

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

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 $x = 3y - 4$

Algebra I Class Worksheet #4 Unit 9

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

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

first: x $x + y = 20$

second: y $x = 3y - 4$

Algebra I Class Worksheet #4 Unit 9

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

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

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

second: y $x = 3y - 4$

Algebra I Class Worksheet #4 Unit 9

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

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

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

second: y $x = 3y - 4$

Algebra I Class Worksheet #4 Unit 9

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

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

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

second: y $x = 3y - 4$

Algebra I Class Worksheet #4 Unit 9

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

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

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

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

Algebra I Class Worksheet #4 Unit 9

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

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

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

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

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

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

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

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

$4y$

Algebra I Class Worksheet #4 Unit 9

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

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

first: x

second: y

$x + y = 20$

$x = 3y - 4$

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

$4y - 4 = 20$

$4y = 24$

Algebra I Class Worksheet #4 Unit 9

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

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

first: x

second: y

$$x + y = 20$$

$$x = 3y - 4$$

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

$$4y - 4 = 20$$

$$4y = 24$$

$$y = 6$$

Algebra I Class Worksheet #4 Unit 9

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

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

$x + y = 20$

$x = 3y - 4$

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

$4y - 4 = 20$

$4y = 24$

$y = 6$

$x = 3y - 4$

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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

second: y

$x + y = 20$

$x = 3y - 4$

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

$4y - 4 = 20$

$4y = 24$

$y = 6$

$x =$

$x = 3y - 4$

Algebra I Class Worksheet #4 Unit 9

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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

$$x + y = 20$$

$$x = 3y - 4$$

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

$$4y - 4 = 20$$

$$4y = 24$$

$$y = 6$$

$$x = 3y - 4$$

$$x = 3(6) - 4$$

Algebra I Class Worksheet #4 Unit 9

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

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

first: x

second: y

$x + y = 20$

$x = 3y - 4$

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

$4y - 4 = 20$

$4y = 24$

$y = 6$

$x = 3y - 4$

$x = 3(6) - 4$

$x =$

Algebra I Class Worksheet #4 Unit 9

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

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

$$x + y = 20$$

$$x = 3y - 4$$

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

$$4y - 4 = 20$$

$$4y = 24$$

$$y = 6$$

$$x = 3y - 4$$

$$x = 3(6) - 4$$

$$x = 18 - 4$$

Algebra I Class Worksheet #4 Unit 9

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

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

first: x
second: y

$x + y = 20$
$x = 3y - 4$

$(3y - 4) + y = 20$
$4y - 4 = 20$
$4y = 24$
$y = 6$

$x = 3y - 4$
$x = 3(6) - 4$
$x = 18 - 4$
$x = 14$

Algebra I Class Worksheet #4 Unit 9

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

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

first: x
second: y

$x + y = 20$
$x = 3y - 4$

$(3y - 4) + y = 20$
$4y - 4 = 20$
$4y = 24$
$y = 6$

$x = 3y - 4$
$x = 3(6) - 4$
$x = 18 - 4$
$x = 14$

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

Algebra I Class Worksheet #4 Unit 9

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

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

Algebra I Class Worksheet #4 Unit 9

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

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

first:

second:

Algebra I Class Worksheet #4 Unit 9

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

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

first: x

second: y

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first: x

second: y

Algebra I Class Worksheet #4 Unit 9

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

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

first: x **x + y =**

second: y

Algebra I Class Worksheet #4 Unit 9

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

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

first: x $x + y = 15$

second: y

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first: x **x + y = 15**

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 $x + y = 15$

second: y $x - y$

Algebra I Class Worksheet #4 Unit 9

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

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

first: x $x + y = 15$

second: y $x - y = 9$

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

first: x $x + y = 15$

second: y $x - y = 9$

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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 $x + y = 15$

second: y $x - y = 9$

$2x$

Algebra I Class Worksheet #4 Unit 9

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

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

first: x

second: y

$$x + y = 15$$
$$x - y = 9$$
$$2x = 24$$

Algebra I Class Worksheet #4 Unit 9

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

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

first: x

second: y

$$x + y = 15$$
$$x - y = 9$$

$$2x = 24$$
$$x = 12$$

Algebra I Class Worksheet #4 Unit 9

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

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

first: x

second: y

$$x + y = 15$$
$$x - y = 9$$

$$2x = 24$$
$$x = 12$$

$$x + y = 15$$

Algebra I Class Worksheet #4 Unit 9

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

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

first: x

second: y

$$x + y = 15$$
$$x - y = 9$$

$$2x = 24$$
$$x = 12$$

$$x + y = 15$$
$$12 + y$$

Algebra I Class Worksheet #4 Unit 9

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

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

first: x

second: y

$$x + y = 15$$
$$x - y = 9$$

$$2x = 24$$
$$x = 12$$

$$x + y = 15$$
$$12 + y = 15$$

Algebra I Class Worksheet #4 Unit 9

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

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

first: x

second: y

$$x + y = 15$$
$$x - y = 9$$

$$2x = 24$$
$$x = 12$$

$$x + y = 15$$
$$12 + y = 15$$
$$y = 3$$

Algebra I Class Worksheet #4 Unit 9

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

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

first: x

second: y

$$x + y = 15$$
$$x - y = 9$$

$$2x = 24$$
$$x = 12$$

$$x + y = 15$$
$$12 + y = 15$$
$$y = 3$$

The numbers are 12 and 3.

Algebra I Class Worksheet #4 Unit 9

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

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?

Algebra I Class Worksheet #4 Unit 9

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

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

dimes:

nickels:

Algebra I Class Worksheet #4 Unit 9

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	number of coins
dimes:	
nickels:	

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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:	**y**

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	number of coins
dimes:	**x**
nickels:	**y**

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

	number of coins
dimes:	**x**
nickels:	**y**
total	

Algebra I Class Worksheet #4 Unit 9

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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:	**y**
total	**40**

Algebra I Class Worksheet #4 Unit 9

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

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

	number of coins
dimes:	**x**
nickels:	**y**
total	**40**

x + y

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

	number of coins
dimes:	**x**
nickels:	**y**
total	**40**

$$x + y = 40$$

Algebra I Class Worksheet #4 Unit 9

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

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

	number of coins
dimes:	**x**
nickels:	**y**
total	**40**

$$x + y = 40$$

Algebra I Class Worksheet #4 Unit 9

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

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

	number of coins	value of the coins
dimes:	**x**	
nickels:	**y**	
total	**40**	

$$x + y = 40$$

Algebra I Class Worksheet #4 Unit 9

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

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

	number of coins	value of the coins
dimes:	**x**	**10x¢**
nickels:	**y**	
total	**40**	

$$x + y = 40$$

Algebra I Class Worksheet #4 Unit 9

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

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

	number of coins	value of the coins
dimes:	**x**	**10x¢**
nickels:	**y**	**5y¢**
total	**40**	

x + y = 40

Algebra I Class Worksheet #4 Unit 9

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

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

	number of coins	value of the coins
dimes:	**x**	**10x¢**
nickels:	**y**	**5y¢**
total	**40**	

x + y = 40

Algebra I Class Worksheet #4 Unit 9

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

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

	number of coins	value of the coins
dimes:	**x**	**10x¢**
nickels:	**y**	**5y¢**
total	**40**	**320¢**

$$x + y = 40$$

Algebra I Class Worksheet #4 Unit 9

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

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

	number of coins	value of the coins
dimes:	**x**	**10x¢**
nickels:	**y**	**5y¢**
total	**40**	**320¢**

$$x + y = 40$$

$$10x + 5y$$

Algebra I Class Worksheet #4 Unit 9

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

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

	number of coins	value of the coins
dimes:	**x**	**10x¢**
nickels:	**y**	**5y¢**
total	**40**	**320¢**

$$x + y = 40$$

$$10x + 5y = 320$$

Algebra I Class Worksheet #4 Unit 9

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

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

	number of coins	value of the coins
dimes:	**x**	**10x¢**
nickels:	**y**	**5y¢**
total	**40**	**320¢**

$$x + y = 40$$

$$10x + 5y = 320$$

Algebra I Class Worksheet #4 Unit 9

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

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

	number of coins	value of the coins
dimes:	**x**	**10x¢**
nickels:	**y**	**5y¢**
total	**40**	**320¢**

$$x + y = 40 \quad \xrightarrow{-5}$$

$$10x + 5y = 320$$

Algebra I Class Worksheet #4 Unit 9

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

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

	number of coins	value of the coins
dimes:	**x**	**10x¢**
nickels:	**y**	**5y¢**
total	**40**	**320¢**

$$x + y = 40 \xrightarrow{-5} -5x$$

$$10x + 5y = 320$$

Algebra I Class Worksheet #4 Unit 9

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

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

	number of coins	value of the coins
dimes:	**x**	**10x¢**
nickels:	**y**	**5y¢**
total	**40**	**320¢**

$$x + y = 40 \xrightarrow{-5} -5x - 5y$$

$$10x + 5y = 320$$

Algebra I Class Worksheet #4 Unit 9

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

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

	number of coins	value of the coins
dimes:	**x**	**10x¢**
nickels:	**y**	**5y¢**
total	**40**	**320¢**

$$x + y = 40 \xrightarrow{-5} -5x - 5y = -200$$

$$10x + 5y = 320$$

Algebra I Class Worksheet #4 Unit 9

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Algebra I Class Worksheet #4 Unit 9

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$$5x$$

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nickels:	**y**	**5y¢**
total	**40**	**320¢**

$$x + y = 40 \xrightarrow{-5} -5x - 5y = -200$$

$$10x + 5y = 320 \rightarrow 10x + 5y = 320$$

$$5x = 120$$

Algebra I Class Worksheet #4 Unit 9

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dimes:	**x**	**10x¢**
nickels:	**y**	**5y¢**
total	**40**	**320¢**

$$x + y = 40 \xrightarrow{-5} -5x - 5y = -200$$

$$10x + 5y = 320 \rightarrow 10x + 5y = 320$$

$$5x = 120$$

$$x = 24$$

Algebra I Class Worksheet #4 Unit 9

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nickels:	**y**	**5y¢**
total	**40**	**320¢**

$$x + y = 40 \xrightarrow{-5} -5x - 5y = -200$$

$$10x + 5y = 320 \rightarrow 10x + 5y = 320$$

$$5x = 120$$

$$x = 24$$

$$x + y = 40$$

Algebra I Class Worksheet #4 Unit 9

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$$x + y = 40 \xrightarrow{-5} -5x - 5y = -200$$

$$10x + 5y = 320 \rightarrow 10x + 5y = 320$$

$$5x = 120$$

$$x = 24$$

$$x + y = 40$$

$$24 + y = 40$$

Algebra I Class Worksheet #4 Unit 9

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$$10x + 5y = 320 \rightarrow 10x + 5y = 320$$

$$5x = 120$$

$$x = 24$$

$$x + y = 40$$

$$24 + y = 40$$

$$y = 16$$

Algebra I Class Worksheet #4 Unit 9

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dimes:	x	10x¢
nickels:	y	5y¢
total	40	320¢

$x + y = 40$ $\xrightarrow{-5}$ $-5x - 5y = -200$

$10x + 5y = 320$ $\rightarrow$ $10x + 5y = 320$

$5x = 120$

$x = 24$

$x + y = 40$

$24 + y = 40$

$y = 16$

There are 24 dimes and 16 nickels.

Algebra I Class Worksheet #4 Unit 9

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

4. A collection of ordinary dimes and quarters is worth $8. The number of dimes is one less than two times the number of quarters. How many coins of each type are in the collection?

Algebra I Class Worksheet #4 Unit 9

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dimes:

quarters:

Algebra I Class Worksheet #4 Unit 9

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	number of coins
dimes:	
quarters:	

Algebra I Class Worksheet #4 Unit 9

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	number of coins
dimes:	**x**
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Algebra I Class Worksheet #4 Unit 9

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	number of coins	value of the coins
dimes:	**x**	**10x¢**
quarters:	**y**	

Algebra I Class Worksheet #4 Unit 9

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	number of coins	value of the coins
dimes:	**x**	**10x¢**
quarters:	**y**	**25y¢**

Algebra I Class Worksheet #4 Unit 9

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dimes:	**x**	**10x¢**
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total		

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	number of coins	value of the coins
dimes:	**x**	**10x¢**
quarters:	**y**	**25y¢**
total		**800¢**

Algebra I Class Worksheet #4 Unit 9

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

4. A collection of ordinary dimes and quarters is worth $8. The number of dimes is one less than two times the number of quarters. How many coins of each type are in the collection?

10x + 25y

	number of coins	value of the coins
dimes:	**x**	**10x¢**
quarters:	**y**	**25y¢**
total		**800¢**

Algebra I Class Worksheet #4 Unit 9

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$$10x + 25y = 800$$

	number of coins	value of the coins
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10x + 25y = 800

x =

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$$10x + 25y = 800$$

$$x = 2y - 1$$

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10(

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$$10(2y - 1)$$

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$$10(2y - 1) + 25y$$

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$$10(2y - 1) + 25y = 800$$

$$20y$$

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$$10(2y - 1) + 25y = 800$$

$$20y - 10$$

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$$x = 2y - 1$$

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$$20y - 10 + 25y = 800$$

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Algebra I Class Worksheet #4 Unit 9

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$$10x + 25y = 800$$

$$x = 2y - 1$$

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$$45y - 10$$

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$$x = 2y - 1$$

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total		**800¢**

$$10x + 25y = 800$$

$$x = 2y - 1$$

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$$x = 2y - 1$$

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$$20y - 10 + 25y = 800$$

$$45y - 10 = 800$$

$$45y = 810$$

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quarters:	**y**	**25y¢**
total		**800¢**

$$10x + 25y = 800$$

$$x = 2y - 1$$

$$10(2y - 1) + 25y = 800$$

$$20y - 10 + 25y = 800$$

$$45y - 10 = 800$$

$$45y = 810$$

$$y = 18$$

Algebra I Class Worksheet #4 Unit 9

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total		**800¢**

$$10x + 25y = 800$$

$$x = 2y - 1$$

$$10(2y - 1) + 25y = 800 \qquad x = 2y - 1$$

$$20y - 10 + 25y = 800$$

$$45y - 10 = 800$$

$$45y = 810$$

$$y = 18$$

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total		**800¢**

$$10x + 25y = 800$$

$$x = 2y - 1$$

$$10(2y - 1) + 25y = 800 \qquad x = 2y - 1$$

$$20y - 10 + 25y = 800 \qquad x =$$

$$45y - 10 = 800$$

$$45y = 810$$

$$y = 18$$

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dimes:	**x**	**10x¢**
quarters:	**y**	**25y¢**
total		**800¢**

$$10x + 25y = 800$$

$$x = 2y - 1$$

$$10(2y - 1) + 25y = 800$$

$$20y - 10 + 25y = 800$$

$$45y - 10 = 800$$

$$45y = 810$$

$$y = 18$$

$$x = 2y - 1$$

$$x = 2(18) - 1$$

Algebra I Class Worksheet #4 Unit 9

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

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quarters:	**y**	**25y¢**
total		**800¢**

$$10x + 25y = 800$$

$$x = 2y - 1$$

$$10(2y - 1) + 25y = 800$$

$$20y - 10 + 25y = 800$$

$$45y - 10 = 800$$

$$45y = 810$$

$$y = 18$$

$$x = 2y - 1$$

$$x = 2(18) - 1$$

$$x = 35$$

Algebra I Class Worksheet #4 Unit 9

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

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
dimes:	**x**	**10x¢**
quarters:	**y**	**25y¢**
total		**800¢**

$$10x + 25y = 800$$

$$x = 2y - 1$$

$$10(2y - 1) + 25y = 800$$

$$20y - 10 + 25y = 800$$

$$45y - 10 = 800$$

$$45y = 810$$

$$y = 18$$

$$x = 2y - 1$$

$$x = 2(18) - 1$$

$$x = 35$$

There are 35 dimes and 18 quarters.

Algebra I Class Worksheet #4 Unit 9

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

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

Algebra I Class Worksheet #4 Unit 9

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

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

Bill:

Sue:

Algebra I Class Worksheet #4 Unit 9

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

Bill: **x**

Sue: **y**

Algebra I Class Worksheet #4 Unit 9

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Bill: **x**

Sue: **y**

Algebra I Class Worksheet #4 Unit 9

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

Bill: **x**

Sue: **y**

total

Algebra I Class Worksheet #4 Unit 9

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

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

Bill:	**x**
Sue:	**y**
total	**1000**

Algebra I Class Worksheet #4 Unit 9

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

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

Bill:	**x**	**x + y**
Sue:	**y**	
total	**1000**	

Algebra I Class Worksheet #4 Unit 9

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

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

Bill:	**x**
Sue:	**y**
total	**1000**

x + y = 1000

Algebra I Class Worksheet #4 Unit 9

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

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

Bill:	**x**
Sue:	**y**
total	**1000**

x + y = 1000

Algebra I Class Worksheet #4 Unit 9

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

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

Bill:	**x**	**x + y = 1000**
Sue:	**y**	**y =**
total	**1000**	

Algebra I Class Worksheet #4 Unit 9

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

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

Bill:	**x**	**x + y = 1000**
Sue:	**y**	**y = 4x + 25**
total	**1000**	

Algebra I Class Worksheet #4 Unit 9

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

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

Bill:	**x**	**x + y = 1000**
Sue:	**y**	**y = 4x + 25**
total	**1000**	

Algebra I Class Worksheet #4 Unit 9

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

Bill:	**x**	**x + y = 1000**
Sue:	**y**	**y = 4x + 25**
total	**1000**	

x +

Algebra I Class Worksheet #4 Unit 9

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

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

Bill:	**x**	**x + y = 1000**
Sue:	**y**	**y = 4x + 25**
total	**1000**	**x + (4x + 25)**

Algebra I Class Worksheet #4 Unit 9

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

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

Bill:	**x**
Sue:	**y**
total	**1000**

$$x + y = 1000$$

$$y = 4x + 25$$

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

Algebra I Class Worksheet #4 Unit 9

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

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

Bill:	**x**
Sue:	**y**
total	**1000**

x + y = 1000

y = 4x + 25

x + (4x + 25) = 1000

5x

Algebra I Class Worksheet #4 Unit 9

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

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

Bill:	**x**
Sue:	**y**
total	**1000**

$$x + y = 1000$$

$$y = 4x + 25$$

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

$$5x + 25$$

Algebra I Class Worksheet #4 Unit 9

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

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

Bill:	**x**
Sue:	**y**
total	**1000**

$$x + y = 1000$$

$$y = 4x + 25$$

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

$$5x + 25 = 1000$$

Algebra I Class Worksheet #4 Unit 9

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

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

Bill:	**x**
Sue:	**y**
total	**1000**

$$x + y = 1000$$

$$y = 4x + 25$$

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

$$5x + 25 = 1000$$

$$5x$$

Algebra I Class Worksheet #4 Unit 9

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

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

Bill:	**x**
Sue:	**y**
total	**1000**

$$x + y = 1000$$

$$y = 4x + 25$$

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

$$5x + 25 = 1000$$

$$5x = 975$$

Algebra I Class Worksheet #4 Unit 9

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

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

Bill:	**x**
Sue:	**y**
total	**1000**

$$x + y = 1000$$

$$y = 4x + 25$$

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

$$5x + 25 = 1000$$

$$5x = 975$$

$$x = 195$$

Algebra I Class Worksheet #4 Unit 9

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

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

Bill:	**x**
Sue:	**y**
total	**1000**

$$x + y = 1000$$

$$y = 4x + 25$$

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

$$5x + 25 = 1000$$

$$5x = 975$$

$$x = 195$$

$$y = 4x + 25$$

Algebra I Class Worksheet #4 Unit 9

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

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

Bill:	**x**
Sue:	**y**
total	**1000**

$$x + y = 1000$$

$$y = 4x + 25$$

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

$$5x + 25 = 1000$$

$$5x = 975$$

$$x = 195$$

$$y = 4x + 25$$

$$y =$$

Algebra I Class Worksheet #4 Unit 9

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

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

Bill:	**x**
Sue:	**y**
total	**1000**

$$x + y = 1000$$

$$y = 4x + 25$$

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

$$5x + 25 = 1000$$

$$5x = 975$$

$$x = 195$$

$$y = 4x + 25$$

$$y = 4(195) + 25$$

Algebra I Class Worksheet #4 Unit 9

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

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

Bill:	**x**
Sue:	**y**
total	**1000**

$$x + y = 1000$$

$$y = 4x + 25$$

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

$$5x + 25 = 1000$$

$$5x = 975$$

$$x = 195$$

$$y = 4x + 25$$

$$y = 4(195) + 25$$

$$y = 805$$

Algebra I Class Worksheet #4 Unit 9

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

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

Bill:	**x**
Sue:	**y**
total	**1000**

$$x + y = 1000$$

$$y = 4x + 25$$

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

$$5x + 25 = 1000$$

$$5x = 975$$

$$x = 195$$

$$y = 4x + 25$$

$$y = 4(195) + 25$$

$$y = 805$$

Bill earned $195, and Sue earned $805.

Algebra I Class Worksheet #4 Unit 9

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

6. Coffee worth $1.50 per pound is mixed with coffee worth $1.80 per pound to produce a 50 pound blend worth $1.59 per pound. How many pounds of each type of coffee is used?

Algebra I Class Worksheet #4 Unit 9

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

6. Coffee worth $1.50 per pound is mixed with coffee worth $1.80 per pound to produce a 50 pound blend worth $1.59 per pound. How many pounds of each type of coffee is used?

brand A:

brand B:

Algebra I Class Worksheet #4 Unit 9

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

6. Coffee worth $1.50 per pound is mixed with coffee worth $1.80 per pound to produce a 50 pound blend worth $1.59 per pound. How many pounds of each type of coffee is used?

	number of pounds
brand A:	
brand B:	

Algebra I Class Worksheet #4 Unit 9

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

6. Coffee worth $1.50 per pound is mixed with coffee worth $1.80 per pound to produce a 50 pound blend worth $1.59 per pound. How many pounds of each type of coffee is used?

	number of pounds
brand A:	**x**
brand B:	**y**

Algebra I Class Worksheet #4 Unit 9

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

6. Coffee worth $1.50 per pound is mixed with coffee worth $1.80 per pound to produce a 50 pound blend worth $1.59 per pound. How many pounds of each type of coffee is used?

	number of pounds
brand A:	**x**
brand B:	**y**

Algebra I Class Worksheet #4 Unit 9

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

6. Coffee worth $1.50 per pound is mixed with coffee worth $1.80 per pound to produce a 50 pound blend worth $1.59 per pound. How many pounds of each type of coffee is used?

	number of pounds
brand A:	**x**
brand B:	**y**
mixture:	

Algebra I Class Worksheet #4 Unit 9

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

6. Coffee worth $1.50 per pound is mixed with coffee worth $1.80 per pound to produce a 50 pound blend worth $1.59 per pound. How many pounds of each type of coffee is used?

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

Algebra I Class Worksheet #4 Unit 9

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

6. Coffee worth $1.50 per pound is mixed with coffee worth $1.80 per pound to produce a 50 pound blend worth $1.59 per pound. How many pounds of each type of coffee is used?

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

Algebra I Class Worksheet #4 Unit 9

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

6. Coffee worth $1.50 per pound is mixed with coffee worth $1.80 per pound to produce a 50 pound blend worth $1.59 per pound. How many pounds of each type of coffee is used?

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

$$x + y = 50$$

Algebra I Class Worksheet #4 Unit 9

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

6. Coffee worth $1.50 per pound is mixed with coffee worth $1.80 per pound to produce a 50 pound blend worth $1.59 per pound. How many pounds of each type of coffee is used?

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

$$x + y = 50$$

Algebra I Class Worksheet #4 Unit 9

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

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	value per pound
brand A:	x	
brand B:	y	
mixture:	50	

$$x + y = 50$$

Algebra I Class Worksheet #4 Unit 9

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

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	value per pound
brand A:	x	150¢
brand B:	y	
mixture:	50	

$$x + y = 50$$

Algebra I Class Worksheet #4 Unit 9

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

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	value per pound
brand A:	**x**	**150¢**
brand B:	**y**	**180¢**
mixture:	**50**	

x + y = 50

Algebra I Class Worksheet #4 Unit 9

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

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	value per pound
brand A:	**x**	**150¢**
brand B:	**y**	**180¢**
mixture:	**50**	

x + y = 50

Algebra I Class Worksheet #4 Unit 9

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

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	value per pound
brand A:	**x**	**150¢**
brand B:	**y**	**180¢**
mixture:	**50**	**159¢**

$$x + y = 50$$

Algebra I Class Worksheet #4 Unit 9

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

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	value per pound
brand A:	**x**	**150¢**
brand B:	**y**	**180¢**
mixture:	**50**	**159¢**

x + y = 50

Algebra I Class Worksheet #4 Unit 9

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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	value per pound	total value
brand A:	**x**	**150¢**	
brand B:	**y**	**180¢**	
mixture:	**50**	**159¢**	

$$x + y = 50$$

Algebra I Class Worksheet #4 Unit 9

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

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	value per pound	total value
brand A:	**x**	**150¢**	**150x¢**
brand B:	**y**	**180¢**	
mixture:	**50**	**159¢**	

x + y = 50

Algebra I Class Worksheet #4 Unit 9

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

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	value per pound	total value
brand A:	**x**	**150¢**	**150x¢**
brand B:	**y**	**180¢**	**180y¢**
mixture:	**50**	**159¢**	

x + y = 50

Algebra I Class Worksheet #4 Unit 9

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

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	value per pound	total value
brand A:	**x**	**150¢**	**150x¢**
brand B:	**y**	**180¢**	**180y¢**
mixture:	**50**	**159¢**	**7950¢**

x + y = 50

Algebra I Class Worksheet #4 Unit 9

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

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	value per pound	total value
brand A:	**x**	**150¢**	**150x¢**
brand B:	**y**	**180¢**	**180y¢**
mixture:	**50**	**159¢**	**7950¢**

$$x + y = 50$$

$$150x + 180y$$

Algebra I Class Worksheet #4 Unit 9

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

6. Coffee worth $1.50 per pound is mixed with coffee worth $1.80 per pound to produce a 50 pound blend worth $1.59 per pound. How many pounds of each type of coffee is used?

	number of pounds	value per pound	total value
brand A:	**x**	**150¢**	**150x¢**
brand B:	**y**	**180¢**	**180y¢**
mixture:	**50**	**159¢**	**7950¢**

$$x + y = 50$$

$$150x + 180y = 7950$$

Algebra I Class Worksheet #4 Unit 9

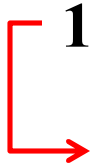
Write a system of **two equations** with **two variables** and solve each of the following problems. Show your **complete** solution **neatly organized**.

6. Coffee worth $1.50 per pound is mixed with coffee worth $1.80 per pound to produce a 50 pound blend worth $1.59 per pound. How many pounds of each type of coffee is used?

	number of pounds	value per pound	total value
brand A:	**x**	**150¢**	**150x¢**
brand B:	**y**	**180¢**	**180y¢**
mixture:	**50**	**159¢**	**7950¢**

$$x + y = 50$$

$$150x + 180y = 7950$$



Algebra I Class Worksheet #4 Unit 9

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

6. Coffee worth $1.50 per pound is mixed with coffee worth $1.80 per pound to produce a 50 pound blend worth $1.59 per pound. How many pounds of each type of coffee is used?

	number of pounds	value per pound	total value
brand A:	**x**	**150¢**	**150x¢**
brand B:	**y**	**180¢**	**180y¢**
mixture:	**50**	**159¢**	**7950¢**

$$x + y = 50$$

$$150x + 180y = 7950$$

$$15x$$

Algebra I Class Worksheet #4 Unit 9

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

6. Coffee worth $1.50 per pound is mixed with coffee worth $1.80 per pound to produce a 50 pound blend worth $1.59 per pound. How many pounds of each type of coffee is used?

	number of pounds	value per pound	total value
brand A:	**x**	**150¢**	**150x¢**
brand B:	**y**	**180¢**	**180y¢**
mixture:	**50**	**159¢**	**7950¢**

$$x + y = 50$$

$$150x + 180y = 7950$$

$$15x + 18y$$

Algebra I Class Worksheet #4 Unit 9

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

6. Coffee worth $1.50 per pound is mixed with coffee worth $1.80 per pound to produce a 50 pound blend worth $1.59 per pound. How many pounds of each type of coffee is used?

	number of pounds	value per pound	total value
brand A:	**x**	**150¢**	**150x¢**
brand B:	**y**	**180¢**	**180y¢**
mixture:	**50**	**159¢**	**7950¢**

$$x + y = 50$$

$$150x + 180y = 7950$$

$$15x + 18y = 795$$

Algebra I Class Worksheet #4 Unit 9

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

6. Coffee worth $1.50 per pound is mixed with coffee worth $1.80 per pound to produce a 50 pound blend worth $1.59 per pound. How many pounds of each type of coffee is used?

	number of pounds	value per pound	total value
brand A:	**x**	**150¢**	**150x¢**
brand B:	**y**	**180¢**	**180y¢**
mixture:	**50**	**159¢**	**7950¢**

$$x + y = 50$$

$$150x + 180y = 7950$$

$$15x + 18y = 795$$

Algebra I Class Worksheet #4 Unit 9

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

6. Coffee worth $1.50 per pound is mixed with coffee worth $1.80 per pound to produce a 50 pound blend worth $1.59 per pound. How many pounds of each type of coffee is used?

	number of pounds	value per pound	total value
brand A:	x	150¢	150x¢
brand B:	y	180¢	180y¢
mixture:	50	159¢	7950¢

-15

$$x + y = 50$$

$$150x + 180y = 7950$$

$$15x + 18y = 795$$

Algebra I Class Worksheet #4 Unit 9

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

6. Coffee worth $1.50 per pound is mixed with coffee worth $1.80 per pound to produce a 50 pound blend worth $1.59 per pound. How many pounds of each type of coffee is used?

	number of pounds	value per pound	total value
brand A:	x	150¢	150x¢
brand B:	y	180¢	180y¢
mixture:	50	159¢	7950¢

$x + y = 50$

$150x + 180y = 7950$

-15

$15x + 18y = 795$

$-15x$

Algebra I Class Worksheet #4 Unit 9

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

6. Coffee worth $1.50 per pound is mixed with coffee worth $1.80 per pound to produce a 50 pound blend worth $1.59 per pound. How many pounds of each type of coffee is used?

	number of pounds	value per pound	total value
brand A:	x	150¢	150x¢
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mixture:	50	159¢	7950¢

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$$150x + 180y = 7950$$

-15

$$15x + 18y = 795$$

$$-15x - 15y$$

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$$x + y = 50$$

$$150x + 180y = 7950$$

$$15x + 18y = 795$$

$$-15x - 15y = -750$$

Algebra I Class Worksheet #4 Unit 9

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$$15x + 18y = 795$$

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mixture:	**50**	**159¢**	**7950¢**

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$$-15x - 15y = -750$$

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mixture:	**50**	**159¢**	**7950¢**

$$x + y = 50$$

$$150x + 180y = 7950$$

$$15x + 18y = 795$$

$$-15x - 15y = -750$$

$$3y$$

Algebra I Class Worksheet #4 Unit 9

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mixture:	**50**	**159¢**	**7950¢**

$$x + y = 50$$

$$150x + 180y = 7950$$

$$15x + 18y = 795$$

$$-15x - 15y = -750$$

$$3y = 45$$

Algebra I Class Worksheet #4 Unit 9

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mixture:	**50**	**159¢**	**7950¢**

$$x + y = 50$$

$$150x + 180y = 7950$$

$$15x + 18y = 795$$

$$-15x - 15y = -750$$

$$3y = 45$$

$$y = 15$$

Algebra I Class Worksheet #4 Unit 9

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brand A:	**x**	**150¢**	**150x¢**
brand B:	**y**	**180¢**	**180y¢**
mixture:	**50**	**159¢**	**7950¢**

$$x + y = 50$$

$$150x + 180y = 7950$$

$$15x + 18y = 795$$

$$-15x - 15y = -750$$

$$3y = 45$$

$$y = 15$$

$$x + y = 50$$

Algebra I Class Worksheet #4 Unit 9

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brand A:	**x**	**150¢**	**150x¢**
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mixture:	**50**	**159¢**	**7950¢**

$$x + y = 50$$

$$150x + 180y = 7950$$

$$15x + 18y = 795$$

$$-15x - 15y = -750$$

$$3y = 45$$

$$y = 15$$

$$x + y = 50$$

$$x + 15 = 50$$

Algebra I Class Worksheet #4 Unit 9

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

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brand A:	**x**	**150¢**	**150x¢**
brand B:	**y**	**180¢**	**180y¢**
mixture:	**50**	**159¢**	**7950¢**

$$x + y = 50$$

$$150x + 180y = 7950$$

$$15x + 18y = 795$$

$$-15x - 15y = -750$$

$$3y = 45$$

$$y = 15$$

$$x + y = 50$$

$$x + 15 = 50$$

$$x = 35$$

Algebra I Class Worksheet #4 Unit 9

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

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	value per pound	total value
brand A:	x	150¢	150x¢
brand B:	y	180¢	180y¢
mixture:	50	159¢	7950¢

$$x + y = 50$$

$$150x + 180y = 7950$$

$$15x + 18y = 795$$

$$-15x - 15y = -750$$

$$3y = 45$$

$$y = 15$$

$$x + y = 50$$

$$x + 15 = 50$$

$$x = 35$$

Use 35 pounds @ $1.50 per pound and 15 pounds @ $1.80 per pound.

Algebra I Class Worksheet #4 Unit 9

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

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

Algebra I Class Worksheet #4 Unit 9

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

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

First person:

Second person:

Algebra I Class Worksheet #4 Unit 9

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First person: x

Second person: y

Algebra I Class Worksheet #4 Unit 9

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First person: x

Second person: y

Algebra I Class Worksheet #4 Unit 9

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

First person: x

Second person: y

total

Algebra I Class Worksheet #4 Unit 9

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

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

First person: x
Second person: y
total 200

Algebra I Class Worksheet #4 Unit 9

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

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

x + y

First person: x

Second person: y

total 200

Algebra I Class Worksheet #4 Unit 9

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

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

$$x + y = 200$$

First person: x

Second person: y

total 200

Algebra I Class Worksheet #4 Unit 9

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

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$$x + y = 200$$

First person: x

Second person: y

total 200

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First person: x

Second person: y

total 200

x + y = 200

y =

Algebra I Class Worksheet #4 Unit 9

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

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

$$x + y = 200$$

$$y = 4x - 25$$

Algebra I Class Worksheet #4 Unit 9

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

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

First person: x
Second person: y
total 200

$$x + y = 200$$

$$y = 4x - 25$$

Algebra I Class Worksheet #4 Unit 9

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First person: x

Second person: y

total 200

$$x + y = 200$$

$$y = 4x - 25$$

$$x +$$

Algebra I Class Worksheet #4 Unit 9

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

First person: x

Second person: y

total 200

$$x + y = 200$$

$$y = 4x - 25$$

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

Algebra I Class Worksheet #4 Unit 9

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

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

First person: x
Second person: y
total 200

$$x + y = 200$$

$$y = 4x - 25$$

$$x + (4x - 25) = 200$$

Algebra I Class Worksheet #4 Unit 9

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

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

First person: x
Second person: y
total 200

$$x + y = 200$$

$$y = 4x - 25$$

$$x + (4x - 25) = 200$$

$$5x$$

Algebra I Class Worksheet #4 Unit 9

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

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

First person: x
Second person: y
total 200

$$x + y = 200$$

$$y = 4x - 25$$

$$x + (4x - 25) = 200$$

$$5x - 25$$

Algebra I Class Worksheet #4 Unit 9

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

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

First person: x
Second person: y
total 200

$$x + y = 200$$

$$y = 4x - 25$$

$$x + (4x - 25) = 200$$

$$5x - 25 = 200$$

Algebra I Class Worksheet #4 Unit 9

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

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

First person: x
Second person: y
total 200

$$x + y = 200$$

$$y = 4x - 25$$

$$x + (4x - 25) = 200$$

$$5x - 25 = 200$$

$$5x$$

Algebra I Class Worksheet #4 Unit 9

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

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

First person: x
Second person: y
total 200

$$x + y = 200$$

$$y = 4x - 25$$

$$x + (4x - 25) = 200$$

$$5x - 25 = 200$$

$$5x = 225$$

Algebra I Class Worksheet #4 Unit 9

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

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

First person: x
Second person: y
total 200

$$x + y = 200$$

$$y = 4x - 25$$

$$x + (4x - 25) = 200$$

$$5x - 25 = 200$$

$$5x = 225$$

$$x = 45$$

Algebra I Class Worksheet #4 Unit 9

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

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

$$x + y = 200$$

$$y = 4x - 25$$

$$x + (4x - 25) = 200$$

$$5x - 25 = 200$$

$$5x = 225$$

$$x = 45$$

$$y = 4x - 25$$

Algebra I Class Worksheet #4 Unit 9

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

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

First person: x
Second person: y
total 200

$$x + y = 200$$

$$y = 4x - 25$$

$$x + (4x - 25) = 200$$

$$5x - 25 = 200$$

$$5x = 225$$

$$x = 45$$

$$y = 4x - 25$$

$$y =$$

Algebra I Class Worksheet #4 Unit 9

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

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

$$x + y = 200$$
$$y = 4x - 25$$

$$x + (4x - 25) = 200$$
$$5x - 25 = 200$$
$$5x = 225$$
$$x = 45$$

$$y = 4x - 25$$
$$y = 4(45) - 25$$

Algebra I Class Worksheet #4 Unit 9

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

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

First person: x
Second person: y
total 200

$$x + y = 200$$
$$y = 4x - 25$$

$$x + (4x - 25) = 200$$
$$5x - 25 = 200$$
$$5x = 225$$
$$x = 45$$

$$y = 4x - 25$$
$$y = 4(45) - 25$$
$$y = 155$$

Algebra I Class Worksheet #4 Unit 9

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

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

$$x + y = 200$$
$$y = 4x - 25$$

$$x + (4x - 25) = 200$$
$$5x - 25 = 200$$
$$5x = 225$$
$$x = 45$$

$$y = 4x - 25$$
$$y = 4(45) - 25$$
$$y = 155$$

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

Algebra I Class Worksheet #4 Unit 9

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

8. Mary invested $5000, part at 3% per year and the rest at 4% per year. If the total interest for the year was $185, then how much was invested at each rate?

Algebra I Class Worksheet #4 Unit 9

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

8. Mary invested $5000, part at 3% per year and the rest at 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:	**y**

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	amount invested
first:	**x**
second:	**y**

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	amount invested
first:	**x**
second:	**y**
total	

Algebra I Class Worksheet #4 Unit 9

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

Algebra I Class Worksheet #4 Unit 9

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

x + y

Algebra I Class Worksheet #4 Unit 9

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

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

x + y = 5000

Algebra I Class Worksheet #4 Unit 9

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

x + y = 5000

Algebra I Class Worksheet #4 Unit 9

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

8. Mary invested $5000, part at 3% per year and the rest at 4% per year. If the total interest for the year was $185, then how much was invested at each rate?

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

x + y = 5000

Algebra I Class Worksheet #4 Unit 9

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

8. Mary invested $5000, part at 3% per year and the rest at 4% per year. If the total interest for the year was $185, then how much was invested at each rate?

	amount invested	interest rate
first:	**x**	**3%**
second:	**y**	**4%**
total	**$5000**	

x + y = 5000

Algebra I Class Worksheet #4 Unit 9

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

8. Mary invested $5000, part at 3% per year and the rest at 4% per year. If the total interest for the year was $185, then how much was invested at each rate?

	amount invested	interest rate	interest earned
first:	**x**	**3%**	
second:	**y**	**4%**	
total	**$5000**		

x + y = 5000

Algebra I Class Worksheet #4 Unit 9

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

8. Mary invested $5000, part at 3% per year and the rest at 4% per year. If the total interest for the year was $185, then how much was invested at each rate?

	amount invested	interest rate	interest earned
first:	**x**	**3%**	**.03x**
second:	**y**	**4%**	
total	**$5000**		

x + y = 5000

Algebra I Class Worksheet #4 Unit 9

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

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	amount invested	interest rate	interest earned
first:	**x**	**3%**	**.03x**
second:	**y**	**4%**	**.04y**
total	**$5000**		

$$x + y = 5000$$

Algebra I Class Worksheet #4 Unit 9

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

8. Mary invested $5000, part at 3% per year and the rest at 4% per year. If the total interest for the year was $185, then how much was invested at each rate?

	amount invested	interest rate	interest earned
first:	**x**	**3%**	**.03x**
second:	**y**	**4%**	**.04y**
total	**$5000**		**$185**

$$x + y = 5000$$

Algebra I Class Worksheet #4 Unit 9

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

8. Mary invested $5000, part at 3% per year and the rest at 4% per year. If the total interest for the year was $185, then how much was invested at each rate?

	amount invested	interest rate	interest earned
first:	**x**	**3%**	**.03x**
second:	**y**	**4%**	**.04y**
total	**$5000**		**$185**

$$x + y = 5000$$

$$.03x + .04y$$

Algebra I Class Worksheet #4 Unit 9

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

8. Mary invested $5000, part at 3% per year and the rest at 4% per year. If the total interest for the year was $185, then how much was invested at each rate?

	amount invested	interest rate	interest earned
first:	**x**	**3%**	**.03x**
second:	**y**	**4%**	**.04y**
total	**$5000**		**$185**

$$x + y = 5000$$

$$.03x + .04y = 185$$

Algebra I Class Worksheet #4 Unit 9

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

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	amount invested	interest rate	interest earned
first:	**x**	**3%**	**.03x**
second:	**y**	**4%**	**.04y**
total	**$5000**		**$185**

$$x + y = 5000$$

$$.03x + .04y = 185$$

Algebra I Class Worksheet #4 Unit 9

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	amount invested	interest rate	interest earned
first:	**x**	**3%**	**.03x**
second:	**y**	**4%**	**.04y**
total	**$5000**		**$185**

$$x + y = 5000$$

100 $$.03x + .04y = 185$$

Algebra I Class Worksheet #4 Unit 9

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	amount invested	interest rate	interest earned
first:	x	3%	.03x
second:	y	4%	.04y
total	$5000		$185

$$x + y = 5000$$

100 $.03x + .04y = 185$

$3x$

Algebra I Class Worksheet #4 Unit 9

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

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	amount invested	interest rate	interest earned
first:	**x**	**3%**	**.03x**
second:	**y**	**4%**	**.04y**
total	**$5000**		**$185**

$$x + y = 5000$$

$$100 \quad .03x + .04y = 185$$

$$3x + 4y$$

Algebra I Class Worksheet #4 Unit 9

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	amount invested	interest rate	interest earned
first:	x	3%	.03x
second:	y	4%	.04y
total	$5000		$185

$$x + y = 5000$$

$$.03x + .04y = 185 \quad (\times 100)$$

$$3x + 4y = 18{,}500$$

Algebra I Class Worksheet #4 Unit 9

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first:	**x**	**3%**	**.03x**
second:	**y**	**4%**	**.04y**
total	**$5000**		**$185**

$$x + y = 5000$$

$$.03x + .04y = 185$$

$$3x + 4y = 18{,}500$$

Algebra I Class Worksheet #4 Unit 9

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	amount invested	interest rate	interest earned
first:	x	3%	.03x
second:	y	4%	.04y
total	$5000		$185

-3

$$x + y = 5000$$

$$.03x + .04y = 185$$

$$3x + 4y = 18{,}500$$

Algebra I Class Worksheet #4 Unit 9

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

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	amount invested	interest rate	interest earned
first:	x	3%	.03x
second:	y	4%	.04y
total	$5000		$185

-3

$x + y = 5000$

$.03x + .04y = 185$

$3x + 4y = 18{,}500$

$-3x$

Algebra I Class Worksheet #4 Unit 9

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

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	amount invested	interest rate	interest earned
first:	x	3%	.03x
second:	y	4%	.04y
total	$5000		$185

-3

$x + y = 5000$

$.03x + .04y = 185$

$3x + 4y = 18{,}500$

$-3x - 3y$

Algebra I Class Worksheet #4 Unit 9

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

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	amount invested	interest rate	interest earned
first:	x	3%	.03x
second:	y	4%	.04y
total	$5000		$185

-3

$$x + y = 5000$$

$$.03x + .04y = 185$$

$$3x + 4y = 18{,}500$$

$$-3x - 3y = -15{,}000$$

Algebra I Class Worksheet #4 Unit 9

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

8. Mary invested $5000, part at 3% per year and the rest at 4% per year. If the total interest for the year was $185, then how much was invested at each rate?

	amount invested	interest rate	interest earned
first:	**x**	**3%**	**.03x**
second:	**y**	**4%**	**.04y**
total	**$5000**		**$185**

$$x + y = 5000$$

$$.03x + .04y = 185$$

$$3x + 4y = 18{,}500$$

$$-3x - 3y = -15{,}000$$

Algebra I Class Worksheet #4 Unit 9

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

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	amount invested	interest rate	interest earned
first:	**x**	**3%**	**.03x**
second:	**y**	**4%**	**.04y**
total	**$5000**		**$185**

$$x + y = 5000$$

$$.03x + .04y = 185$$

$$3x + 4y = 18{,}500$$

$$-3x - 3y = -15{,}000$$

Algebra I Class Worksheet #4 Unit 9

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

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	amount invested	interest rate	interest earned
first:	**x**	**3%**	**.03x**
second:	**y**	**4%**	**.04y**
total	**$5000**		**$185**

$$x + y = 5000$$

$$.03x + .04y = 185$$

$$3x + 4y = 18{,}500$$

$$-3x - 3y = -15{,}000$$

$$y = 3{,}500$$

Algebra I Class Worksheet #4 Unit 9

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

8. Mary invested $5000, part at 3% per year and the rest at 4% per year. If the total interest for the year was $185, then how much was invested at each rate?

	amount invested	interest rate	interest earned
first:	**x**	**3%**	**.03x**
second:	**y**	**4%**	**.04y**
total	**$5000**		**$185**

$$x + y = 5000$$

$$.03x + .04y = 185$$

$$3x + 4y = 18{,}500$$

$$-3x - 3y = -15{,}000$$

$$y = 3{,}500$$

$$x + y = 5000$$

Algebra I Class Worksheet #4 Unit 9

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	amount invested	interest rate	interest earned
first:	**x**	**3%**	**.03x**
second:	**y**	**4%**	**.04y**
total	**$5000**		**$185**

$$x + y = 5000$$

$$.03x + .04y = 185$$

$$3x + 4y = 18{,}500$$

$$-3x - 3y = -15{,}000$$

$$y = 3{,}500$$

$$x + y = 5000$$

$$x + 3500 = 5000$$

Algebra I Class Worksheet #4 Unit 9

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

8. Mary invested $5000, part at 3% per year and the rest at 4% per year. If the total interest for the year was $185, then how much was invested at each rate?

	amount invested	interest rate	interest earned
first:	**x**	**3%**	**.03x**
second:	**y**	**4%**	**.04y**
total	**$5000**		**$185**

$$x + y = 5000$$

$$.03x + .04y = 185$$

$$3x + 4y = 18{,}500$$

$$-3x - 3y = -15{,}000$$

$$y = 3{,}500$$

$$x + y = 5000$$

$$x + 3500 = 5000$$

$$x = 1500$$

Algebra I Class Worksheet #4 Unit 9

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

8. Mary invested $5000, part at 3% per year and the rest at 4% per year. If the total interest for the year was $185, then how much was invested at each rate?

	amount invested	interest rate	interest earned
first:	x	3%	.03x
second:	y	4%	.04y
total	$5000		$185

She invested $1500 at 3% and $3500 at 4%.

$$x + y = 5000$$

$$.03x + .04y = 185$$

$$3x + 4y = 18{,}500$$

$$-3x - 3y = -15{,}000$$

$$y = 3{,}500$$

$$x + y = 5000$$

$$x + 3500 = 5000$$

$$x = 1500$$

Algebra I Class Worksheet #4 Unit 9

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

9. A chemist has one solution that is 35% acid and another that is 10% acid. How much of each solution should she use to make 50cc of a solution that is 25% acid?

Algebra I Class Worksheet #4 Unit 9

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first:

second:

Algebra I Class Worksheet #4 Unit 9

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	volume of solution
first:	
second:	

Algebra I Class Worksheet #4 Unit 9

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

Algebra I Class Worksheet #4 Unit 9

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

Algebra I Class Worksheet #4 Unit 9

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	volume of solution
first:	**x**
second:	**y**
total	

Algebra I Class Worksheet #4 Unit 9

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	volume of solution
first:	**x**
second:	**y**
total	**50 cc**

Algebra I Class Worksheet #4 Unit 9

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

9. A chemist has one solution that is 35% acid and another that is 10% acid. How much of each solution should she use to make 50cc of a solution that is 25% acid?

x + y

	volume of solution
first:	**x**
second:	**y**
total	**50 cc**

Algebra I Class Worksheet #4 Unit 9

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

9. A chemist has one solution that is 35% acid and another that is 10% acid. How much of each solution should she use to make 50cc of a solution that is 25% acid?

$$x + y = 50$$

	volume of solution
first:	**x**
second:	**y**
total	**50 cc**

Algebra I Class Worksheet #4 Unit 9

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

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$$x + y = 50$$

	volume of solution
first:	x
second:	y
total	**50 cc**

Algebra I Class Worksheet #4 Unit 9

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

9. A chemist has one solution that is 35% acid and another that is 10% acid. How much of each solution should she use to make 50cc of a solution that is 25% acid?

$$x + y = 50$$

	volume of solution	percent acid
first:	**x**	
second:	**y**	
total	**50 cc**	

Algebra I Class Worksheet #4 Unit 9

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

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$$x + y = 50$$

	volume of solution	percent acid
first:	**x**	**35%**
second:	**y**	
total	**50 cc**	

Algebra I Class Worksheet #4 Unit 9

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$$x + y = 50$$

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

Algebra I Class Worksheet #4 Unit 9

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$$x + y = 50$$

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

Algebra I Class Worksheet #4 Unit 9

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$$x + y = 50$$

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

Algebra I Class Worksheet #4 Unit 9

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$$x + y = 50$$

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

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$$x + y = 50$$

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

Algebra I Class Worksheet #4 Unit 9

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$$x + y = 50$$

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

Algebra I Class Worksheet #4 Unit 9

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$$x + y = 50$$

	volume of solution	percent acid	volume of acid
first:	**x**	**35%**	**.35x**
second:	**y**	**10%**	**.10y**
total	**50 cc**	**25%**	**12.5 cc**

Algebra I Class Worksheet #4 Unit 9

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

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	volume of solution	percent acid	volume of acid
first:	**x**	**35%**	**.35x**
second:	**y**	**10%**	**.10y**
total	**50 cc**	**25%**	**12.5 cc**

$$x + y = 50$$

$$.35x + .10y$$

Algebra I Class Worksheet #4 Unit 9

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	volume of solution	percent acid	volume of acid
first:	**x**	**35%**	**.35x**
second:	**y**	**10%**	**.10y**
total	**50 cc**	**25%**	**12.5 cc**

$$x + y = 50$$

$$.35x + .10y = 12.5$$

Algebra I Class Worksheet #4 Unit 9

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	volume of solution	percent acid	volume of acid
first:	**x**	**35%**	**.35x**
second:	**y**	**10%**	**.10y**
total	**50 cc**	**25%**	**12.5 cc**

$$x + y = 50$$

$$.35x + .10y = 12.5$$

Algebra I Class Worksheet #4 Unit 9

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	volume of solution	percent acid	volume of acid
first:	**x**	**35%**	**.35x**
second:	**y**	**10%**	**.10y**
total	**50 cc**	**25%**	**12.5 cc**

$$x + y = 50$$

100 $$.35x + .10y = 12.5$$

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	volume of solution	percent acid	volume of acid
first:	x	35%	.35x
second:	y	10%	.10y
total	50 cc	25%	12.5 cc

$$x + y = 50$$

100 $\quad .35x + .10y = 12.5$

$\quad\quad 35x$

Algebra I Class Worksheet #4 Unit 9

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	volume of solution	percent acid	volume of acid
first:	x	35%	.35x
second:	y	10%	.10y
total	50 cc	25%	12.5 cc

$$x + y = 50$$

100 $$.35x + .10y = 12.5$$

$$35x + 10y$$

Algebra I Class Worksheet #4 Unit 9

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	volume of solution	percent acid	volume of acid
first:	x	35%	.35x
second:	y	10%	.10y
total	50 cc	25%	12.5 cc

$$x + y = 50$$

100 $\quad .35x + .10y = 12.5$

$$35x + 10y = 1250$$

Algebra I Class Worksheet #4 Unit 9

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

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	volume of solution	percent acid	volume of acid
first:	**x**	**35%**	**.35x**
second:	**y**	**10%**	**.10y**
total	**50 cc**	**25%**	**12.5 cc**

$$x + y = 50$$

$$.35x + .10y = 12.5$$

$$35x + 10y = 1250$$

Algebra I Class Worksheet #4 Unit 9

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	volume of solution	percent acid	volume of acid
first:	x	35%	.35x
second:	y	10%	.10y
total	50 cc	25%	12.5 cc

-10

$x + y = 50$

$.35x + .10y = 12.5$

$35x + 10y = 1250$

Algebra I Class Worksheet #4 Unit 9

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	volume of solution	percent acid	volume of acid
first:	x	35%	.35x
second:	y	10%	.10y
total	50 cc	25%	12.5 cc

-10

$x + y = 50$

$.35x + .10y = 12.5$

$35x + 10y = 1250$

$-10x$

Algebra I Class Worksheet #4 Unit 9

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	volume of solution	percent acid	volume of acid
first:	x	35%	.35x
second:	y	10%	.10y
total	50 cc	25%	12.5 cc

-10

$x + y = 50$

$.35x + .10y = 12.5$

$35x + 10y = 1250$

$-10x - 10y$

Algebra I Class Worksheet #4 Unit 9

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

9. A chemist has one solution that is 35% acid and another that is 10% acid. How much of each solution should she use to make 50cc of a solution that is 25% acid?

	volume of solution	percent acid	volume of acid
first:	x	35%	.35x
second:	y	10%	.10y
total	50 cc	25%	12.5 cc

-10

$x + y = 50$

$.35x + .10y = 12.5$

$35x + 10y = 1250$

$-10x - 10y = -500$

Algebra I Class Worksheet #4 Unit 9

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

9. A chemist has one solution that is 35% acid and another that is 10% acid. How much of each solution should she use to make 50cc of a solution that is 25% acid?

	volume of solution	percent acid	volume of acid
first:	**x**	**35%**	**.35x**
second:	**y**	**10%**	**.10y**
total	**50 cc**	**25%**	**12.5 cc**

$$x + y = 50$$

$$.35x + .10y = 12.5$$

$$35x + 10y = 1250$$

$$-10x - 10y = -500$$

Algebra I Class Worksheet #4 Unit 9

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second:	**y**	**10%**	**.10y**
total	**50 cc**	**25%**	**12.5 cc**

$$x + y = 50$$

$$.35x + .10y = 12.5$$

$$35x + 10y = 1250$$

$$-10x - 10y = -500$$

Algebra I Class Worksheet #4 Unit 9

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total	**50 cc**	**25%**	**12.5 cc**

$$x + y = 50$$

$$.35x + .10y = 12.5$$

$$35x + 10y = 1250$$

$$-10x - 10y = -500$$

$$25x$$

Algebra I Class Worksheet #4 Unit 9

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second:	**y**	**10%**	**.10y**
total	**50 cc**	**25%**	**12.5 cc**

$$x + y = 50$$

$$.35x + .10y = 12.5$$

$$35x + 10y = 1250$$

$$-10x - 10y = -500$$

$$25x = 750$$

Algebra I Class Worksheet #4 Unit 9

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	volume of solution	percent acid	volume of acid
first:	**x**	**35%**	**.35x**
second:	**y**	**10%**	**.10y**
total	**50 cc**	**25%**	**12.5 cc**

$$x + y = 50$$

$$.35x + .10y = 12.5$$

$$35x + 10y = 1250$$

$$-10x - 10y = -500$$

$$25x = 750$$

$$x = 30$$

Algebra I Class Worksheet #4 Unit 9

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	volume of solution	percent acid	volume of acid
first:	**x**	**35%**	**.35x**
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total	**50 cc**	**25%**	**12.5 cc**

$$x + y = 50$$

$$.35x + .10y = 12.5$$

$$35x + 10y = 1250$$

$$-10x - 10y = -500$$

$$25x = 750$$

$$x = 30$$

$$x + y = 50$$

Algebra I Class Worksheet #4 Unit 9

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first:	x	35%	.35x
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total	50 cc	25%	12.5 cc

$$x + y = 50$$

$$.35x + .10y = 12.5$$

$$35x + 10y = 1250$$

$$-10x - 10y = -500$$

$$25x = 750$$

$$x = 30$$

$$x + y = 50$$

$$30 + y = 50$$

Algebra I Class Worksheet #4 Unit 9

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	volume of solution	percent acid	volume of acid
first:	x	35%	.35x
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total	50 cc	25%	12.5 cc

$$x + y = 50$$

$$.35x + .10y = 12.5$$

$$35x + 10y = 1250$$

$$-10x - 10y = -500$$

$$25x = 750$$

$$x = 30$$

$$x + y = 50$$

$$30 + y = 50$$

$$y = 20$$

Algebra I Class Worksheet #4 Unit 9

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

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	volume of solution	percent acid	volume of acid
first:	x	35%	.35x
second:	y	10%	.10y
total	50 cc	25%	12.5 cc

$$x + y = 50$$

$$.35x + .10y = 12.5$$

$$35x + 10y = 1250$$

$$-10x - 10y = -500$$

$$25x = 750$$

$$x = 30$$

$$x + y = 50$$

$$30 + y = 50$$

$$y = 20$$

She should use 30 cc of the 35% solution and 20 cc of the 10% solution.

Algebra I Class Worksheet #4 Unit 9

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

10. Six burgers and four orders of fries cost $8.70. Three burgers and five orders of fries cost $6.60. How much does each item cost?

Algebra I Class Worksheet #4 Unit 9

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

10. Six burgers and four orders of fries cost $8.70. Three burgers and five orders of fries cost $6.60. How much does each item cost?

burger:

fries:

Algebra I Class Worksheet #4 Unit 9

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

10. Six burgers and four orders of fries cost $8.70. Three burgers and five orders of fries cost $6.60. How much does each item cost?

	cost each
burger:	
fries:	

Algebra I Class Worksheet #4 Unit 9

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

10. Six burgers and four orders of fries cost $8.70. Three burgers and five orders of fries cost $6.60. How much does each item cost?

	cost each
burger:	**x ¢**
fries:	**y ¢**

Algebra I Class Worksheet #4 Unit 9

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

10. Six burgers and four orders of fries cost $8.70. Three burgers and five orders of fries cost $6.60. How much does each item cost?

	cost each
burger:	**x ¢**
fries:	**y ¢**

Algebra I Class Worksheet #4 Unit 9

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

10. Six burgers and four orders of fries cost $8.70. Three burgers and five orders of fries cost $6.60. How much does each item cost?

6x

	cost each
burger:	**x ¢**
fries:	**y ¢**

Algebra I Class Worksheet #4 Unit 9

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

10. Six burgers and four orders of fries cost $8.70. Three burgers and five orders of fries cost $6.60. How much does each item cost?

6x + 4y

	cost each
burger:	**x ¢**
fries:	**y ¢**

Algebra I Class Worksheet #4 Unit 9

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

10. Six burgers and four orders of fries cost $8.70. Three burgers and five orders of fries cost $6.60. How much does each item cost?

$$6x + 4y = 870$$

	cost each
burger:	**x ¢**
fries:	**y ¢**

Algebra I Class Worksheet #4 Unit 9

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

10. Six burgers and four orders of fries cost $8.70. Three burgers and five orders of fries cost $6.60. How much does each item cost?

$$6x + 4y = 870$$

	cost each
burger:	**x ¢**
fries:	**y ¢**

Algebra I Class Worksheet #4 Unit 9

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

10. Six burgers and four orders of fries cost $8.70. Three burgers and five orders of fries cost $6.60. How much does each item cost?

$$6x + 4y = 870$$

$$3x$$

	cost each
burger:	**x ¢**
fries:	**y ¢**

Algebra I Class Worksheet #4 Unit 9

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

10. Six burgers and four orders of fries cost $8.70. Three burgers and five orders of fries cost $6.60. How much does each item cost?

$$6x + 4y = 870$$

$$3x + 5y$$

	cost each
burger:	**x ¢**
fries:	**y ¢**

Algebra I Class Worksheet #4 Unit 9

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

10. Six burgers and four orders of fries cost $8.70. Three burgers and five orders of fries cost $6.60. How much does each item cost?

$$6x + 4y = 870$$

$$3x + 5y = 660$$

	cost each
burger:	**x ¢**
fries:	**y ¢**

Algebra I Class Worksheet #4 Unit 9

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

10. Six burgers and four orders of fries cost $8.70. Three burgers and five orders of fries cost $6.60. How much does each item cost?

$$6x + 4y = 870$$

$$3x + 5y = 660$$

	cost each
burger:	**x ¢**
fries:	**y ¢**

Algebra I Class Worksheet #4 Unit 9

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

10. Six burgers and four orders of fries cost $8.70. Three burgers and five orders of fries cost $6.60. How much does each item cost?

$$6x + 4y = 870 \quad (\times 5)$$

$$3x + 5y = 660$$

	cost each
burger:	**x ¢**
fries:	**y ¢**

Algebra I Class Worksheet #4 Unit 9

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

10. Six burgers and four orders of fries cost $8.70. Three burgers and five orders of fries cost $6.60. How much does each item cost?

$$6x + 4y = 870$$

$$3x + 5y = 660$$

5

30x

	cost each
burger:	**x ¢**
fries:	**y ¢**

Algebra I Class Worksheet #4 Unit 9

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

10. Six burgers and four orders of fries cost $8.70. Three burgers and five orders of fries cost $6.60. How much does each item cost?

	cost each
burger:	**x ¢**
fries:	**y ¢**

$$6x + 4y = 870$$

$$3x + 5y = 660$$

5

$$30x + 20y$$

Algebra I Class Worksheet #4 Unit 9

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

10. Six burgers and four orders of fries cost $8.70. Three burgers and five orders of fries cost $6.60. How much does each item cost?

	cost each
burger:	**x ¢**
fries:	**y ¢**

$$6x + 4y = 870 \quad (\times 5)$$

$$3x + 5y = 660$$

$$30x + 20y = 4350$$

Algebra I Class Worksheet #4 Unit 9

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

10. Six burgers and four orders of fries cost $8.70. Three burgers and five orders of fries cost $6.60. How much does each item cost?

$$6x + 4y = 870$$

$$3x + 5y = 660$$

$$30x + 20y = 4350$$

	cost each
burger:	**x ¢**
fries:	**y ¢**

Algebra I Class Worksheet #4 Unit 9

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

10. Six burgers and four orders of fries cost $8.70. Three burgers and five orders of fries cost $6.60. How much does each item cost?

$$6x + 4y = 870$$

$$3x + 5y = 660 \quad \xrightarrow{-4}$$

$$30x + 20y = 4350$$

	cost each
burger:	**x ¢**
fries:	**y ¢**

Algebra I Class Worksheet #4 Unit 9

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

10. Six burgers and four orders of fries cost $8.70. Three burgers and five orders of fries cost $6.60. How much does each item cost?

$$6x + 4y = 870$$

	cost each
burger:	**x ¢**
fries:	**y ¢**

$$3x + 5y = 660 \quad \text{(-4)}$$

$$30x + 20y = 4350$$

$$-12x$$

Algebra I Class Worksheet #4 Unit 9

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

10. Six burgers and four orders of fries cost $8.70. Three burgers and five orders of fries cost $6.60. How much does each item cost?

$$6x + 4y = 870$$

	cost each
burger:	**x ¢**
fries:	**y ¢**

$$3x + 5y = 660 \quad \xrightarrow{-4}$$

$$30x + 20y = 4350$$

$$-12x - 20y$$

Algebra I Class Worksheet #4 Unit 9

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

10. Six burgers and four orders of fries cost $8.70. Three burgers and five orders of fries cost $6.60. How much does each item cost?

$$6x + 4y = 870$$

	cost each
burger:	**x ¢**
fries:	**y ¢**

$$3x + 5y = 660 \quad \xrightarrow{-4}$$

$$30x + 20y = 4350$$

$$-12x - 20y = -2640$$

Algebra I Class Worksheet #4 Unit 9

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

10. Six burgers and four orders of fries cost $8.70. Three burgers and five orders of fries cost $6.60. How much does each item cost?

	cost each	
		$6x + 4y = 870$
		$3x + 5y = 660$
burger:	x ¢	$30x + 20y = 4350$
fries:	y ¢	$-12x - 20y = -2640$

Algebra I Class Worksheet #4 Unit 9

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

10. Six burgers and four orders of fries cost $8.70. Three burgers and five orders of fries cost $6.60. How much does each item cost?

	cost each	
		$6x + 4y = 870$
		$3x + 5y = 660$
burger:	x ¢	$30x + 20y = 4350$
fries:	y ¢	$-12x - 20y = -2640$
		$18x$

Algebra I Class Worksheet #4 Unit 9

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

10. Six burgers and four orders of fries cost $8.70. Three burgers and five orders of fries cost $6.60. How much does each item cost?

	cost each
burger:	**x ¢**
fries:	**y ¢**

$$6x + 4y = 870$$

$$3x + 5y = 660$$

$$30x + 20y = 4350$$

$$-12x - 20y = -2640$$

$$18x = 1710$$

Algebra I Class Worksheet #4 Unit 9

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

10. Six burgers and four orders of fries cost $8.70. Three burgers and five orders of fries cost $6.60. How much does each item cost?

	cost each
burger:	**x ¢**
fries:	**y ¢**

$$6x + 4y = 870$$

$$3x + 5y = 660$$

$$30x + 20y = 4350$$

$$-12x - 20y = -2640$$

$$18x = 1710$$

$$x = 95$$

Algebra I Class Worksheet #4 Unit 9

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

10. Six burgers and four orders of fries cost $8.70. Three burgers and five orders of fries cost $6.60. How much does each item cost?

	cost each
burger:	**x ¢**
fries:	**y ¢**

$$6x + 4y = 870$$

$$3x + 5y = 660$$

$$30x + 20y = 4350$$

$$-12x - 20y = -2640$$

$$18x = 1710$$

$$x = 95$$

$6x + 4y = 870$

Algebra I Class Worksheet #4 Unit 9

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

10. Six burgers and four orders of fries cost $8.70. Three burgers and five orders of fries cost $6.60. How much does each item cost?

$$6x + 4y = 870$$

$$3x + 5y = 660$$

	cost each
burger:	**x ¢**
fries:	**y ¢**

$$30x + 20y = 4350$$

$$-12x - 20y = -2640$$

$$18x = 1710$$

$$x = 95$$

$$6x + 4y = 870$$

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10. Six burgers and four orders of fries cost $8.70. Three burgers and five orders of fries cost $6.60. How much does each item cost?

$$6x + 4y = 870$$

	cost each
burger:	**x ¢**
fries:	**y ¢**

$$3x + 5y = 660 \quad \xrightarrow{-2}$$

$$30x + 20y = 4350$$

$$-12x - 20y = -2640$$

$$6x + 4y = 870$$

$$18x = 1710$$

$$x = 95$$

Algebra I Class Worksheet #4 Unit 9

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10. Six burgers and four orders of fries cost $8.70. Three burgers and five orders of fries cost $6.60. How much does each item cost?

$$6x + 4y = 870$$

$$3x + 5y = 660 \quad \xrightarrow{-2}$$

	cost each
burger:	x ¢
fries:	y ¢

$$30x + 20y = 4350$$

$$-12x - 20y = -2640$$

$$18x = 1710$$

$$x = 95$$

$$6x + 4y = 870$$

$$-6x$$

Algebra I Class Worksheet #4 Unit 9

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10. Six burgers and four orders of fries cost $8.70. Three burgers and five orders of fries cost $6.60. How much does each item cost?

$$6x + 4y = 870$$

$$3x + 5y = 660 \quad \xrightarrow{-2}$$

	cost each
burger:	x ¢
fries:	y ¢

$$30x + 20y = 4350$$

$$-12x - 20y = -2640$$

$$6x + 4y = 870$$

$$-6x - 10y$$

$$18x = 1710$$

$$x = 95$$

Algebra I Class Worksheet #4 Unit 9

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

10. Six burgers and four orders of fries cost $8.70. Three burgers and five orders of fries cost $6.60. How much does each item cost?

$$6x + 4y = 870$$

$$3x + 5y = 660 \quad \xrightarrow{-2} \quad -6x - 10y = -1320$$

	cost each
burger:	**x ¢**
fries:	**y ¢**

$$30x + 20y = 4350$$

$$-12x - 20y = -2640$$

$$18x = 1710$$

$$x = 95$$

Algebra I Class Worksheet #4 Unit 9

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

10. Six burgers and four orders of fries cost $8.70. Three burgers and five orders of fries cost $6.60. How much does each item cost?

$$6x + 4y = 870$$

$$3x + 5y = 660$$

	cost each
burger:	**x ¢**
fries:	**y ¢**

$$30x + 20y = 4350$$

$$-12x - 20y = -2640$$

$$18x = 1710$$

$$x = 95$$

$$6x + 4y = 870$$

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

Algebra I Class Worksheet #4 Unit 9

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

10. Six burgers and four orders of fries cost $8.70. Three burgers and five orders of fries cost $6.60. How much does each item cost?

$$6x + 4y = 870$$

$$3x + 5y = 660$$

	cost each
burger:	**x ¢**
fries:	**y ¢**

$$30x + 20y = 4350$$

$$-12x - 20y = -2640$$

$$18x = 1710$$

$$x = 95$$

$$6x + 4y = 870$$

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

$$-6y$$

Algebra I Class Worksheet #4 Unit 9

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

10. Six burgers and four orders of fries cost $8.70. Three burgers and five orders of fries cost $6.60. How much does each item cost?

$$6x + 4y = 870$$

$$3x + 5y = 660$$

	cost each
burger:	**x ¢**
fries:	**y ¢**

$$30x + 20y = 4350$$
$$-12x - 20y = -2640$$
$$18x = 1710$$
$$x = 95$$

$$6x + 4y = 870$$
$$-6x - 10y = -1320$$
$$-6y = -450$$

Algebra I Class Worksheet #4 Unit 9

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

10. Six burgers and four orders of fries cost $8.70. Three burgers and five orders of fries cost $6.60. How much does each item cost?

$$6x + 4y = 870$$

$$3x + 5y = 660$$

	cost each
burger:	**x ¢**
fries:	**y ¢**

$$30x + 20y = 4350$$
$$-12x - 20y = -2640$$
$$18x = 1710$$
$$x = 95$$

$$6x + 4y = 870$$
$$-6x - 10y = -1320$$
$$-6y = -450$$
$$y = 75$$

Algebra I Class Worksheet #4 Unit 9

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

10. Six burgers and four orders of fries cost $8.70. Three burgers and five orders of fries cost $6.60. How much does each item cost?

$$6x + 4y = 870$$

$$3x + 5y = 660$$

	cost each
burger:	**x ¢**
fries:	**y ¢**

$$30x + 20y = 4350$$

$$-12x - 20y = -2640$$

$$18x = 1710$$

$$x = 95$$

$$6x + 4y = 870$$

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

$$-6y = -450$$

$$y = 75$$

A burger costs 95 ¢ each, and an order of fries costs 75 ¢ each.

Algebra I Class Worksheet #4 Unit 9

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

10. Six burgers and four orders of fries cost $8.70. Three burgers and five orders of fries cost $6.60. How much does each item cost?

Good luck on your homework !!

burger: x ¢

fries: y ¢

$$30x + 20y = 4350$$
$$-12x - 20y = -2640$$
$$18x = 1710$$
$$x = 95$$

$$6x + 4y = 870$$
$$-6x - 10y = -1320$$
$$-6y = -450$$
$$y = 75$$

A burger costs 95 ¢ each, and an order of fries costs 75 ¢ each.