Algebra II Lesson #5 Unit 2

Class Worksheet #5

For Worksheets #6 & #7

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

1. Donna and Mike receive a total of $275. The amount received by Donna is $10 more than four times the amount received by Mike. How much did each person receive?

Algebra II   Class Worksheet #5   Unit 2

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Donna:

Mike:

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Donna: **x**

Mike: **y**

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Donna: **x** x

Mike: **y**

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Donna: **x**   x +

Mike: **y**

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Donna: **x** $x + y$

Mike: **y**

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Donna: **x** $x + y =$

Mike: **y**

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Mike: **y** x

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Mike: **y** $x = 4y$

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$(4y + 10)$

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$(4y + 10) + y$

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$(4y + 10) + y =$

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$$(4y + 10) + y = 275$$

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$(4y + 10) + y = 275$

$5y$

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$$5y + 10$$

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$$(4y + 10) + y = 275$$
$$5y + 10 = 275$$
$$5y = 265$$

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Mike: **y** $x = 4y + 10$

$$(4y + 10) + y = 275$$
$$5y + 10 = 275$$
$$5y = 265$$
$$y$$

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Donna: **x** $x + y = 275$

Mike: **y** $x = 4y + 10$

$$(4y + 10) + y = 275$$
$$5y + 10 = 275$$
$$5y = 265$$
$$y =$$

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Donna: **x** $x + y = 275$

Mike: **y** $x = 4y + 10$

$$(4y + 10) + y = 275$$
$$5y + 10 = 275$$
$$5y = 265$$
$$y = 53$$

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Donna: **x** $\qquad x + y = 275$

Mike: **y** $\qquad x = 4y + 10$

$$(4y + 10) + y = 275 \qquad x = 4y + 10$$
$$5y + 10 = 275$$
$$5y = 265$$
$$y = 53$$

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Donna: **x** $x + y = 275$

Mike: **y** $x = 4y + 10$

$$(4y + 10) + y = 275 \qquad x = 4y + 10$$
$$5y + 10 = 275 \qquad x =$$
$$5y = 265$$
$$y = 53$$

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Donna: **x** $x + y = 275$

Mike: **y** $x = 4y + 10$

$$(4y + 10) + y = 275$$
$$5y + 10 = 275$$
$$5y = 265$$
$$y = 53$$

$$x = 4y + 10$$
$$x =$$

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Donna: **x** $x + y = 275$

Mike: **y** $x = 4y + 10$

$$(4y + 10) + y = 275$$
$$5y + 10 = 275$$
$$5y = 265$$
$$y = 53$$

$$x = 4y + 10$$
$$x = 212$$

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Donna: **x** $x + y = 275$

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$(4y + 10) + y = 275$

$5y + 10 = 275$

$5y = 265$

$y = 53$

$x = 4y + 10$

$x = 212 +$

Algebra II Class Worksheet #5 Unit 2

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Donna: **x** $x + y = 275$

Mike: **y** $x = 4y + 10$

$$(4y + 10) + y = 275$$
$$5y + 10 = 275$$
$$5y = 265$$
$$y = 53$$

$$x = 4y + 10$$
$$x = 212 + 10$$

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Donna: **x** $x + y = 275$

Mike: **y** $x = 4y + 10$

$(4y + 10) + y = 275$ $x = 4y + 10$

$5y + 10 = 275$ $x = 212 + 10$

$5y = 265$

$y = 53$

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Solve each of the problems algebraically.

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Donna: **x** $x + y = 275$

Mike: **y** $x = 4y + 10$

$(4y + 10) + y = 275$	$x = 4y + 10$
$5y + 10 = 275$	$x = 212 + 10$
$5y = 265$	$x =$
$y = 53$	

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Donna: **x** $x + y = 275$

Mike: **y** $x = 4y + 10$

$$
\begin{aligned}
(4y + 10) + y &= 275 \qquad & x &= 4y + 10 \\
5y + 10 &= 275 & x &= 212 + 10 \\
5y &= 265 & x &= 232 \\
y &= 53
\end{aligned}
$$

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

1. Donna and Mike receive a total of \$275. The amount received by Donna is \$10 more than four times the amount received by Mike. How much did each person receive?

Donna: **x** $x + y = 275$ **Donna received \$232,**

Mike: **y** $x = 4y + 10$

$$\begin{aligned} (4y + 10) + y &= 275 \\ 5y + 10 &= 275 \\ 5y &= 265 \\ y &= 53 \end{aligned}$$

$$\begin{aligned} x &= 4y + 10 \\ x &= 212 + 10 \\ x &= 232 \end{aligned}$$

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Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

1. Donna and Mike receive a total of \$275. The amount received by Donna is \$10 more than four times the amount received by Mike. How much did each person receive?

Donna: **x** $x + y = 275$

Mike: **y** $x = 4y + 10$

Donna received \$232, and Mike received \$53.

$$(4y + 10) + y = 275$$
$$5y + 10 = 275$$
$$5y = 265$$
$$y = 53$$

$$x = 4y + 10$$
$$x = 212 + 10$$
$$x = 232$$

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Donna: **x** $x + y = 275$

Mike: **y** $x = 4y + 10$

Donna received \$232, and Mike received \$53.

$$(4y + 10) + y = 275$$
$$5y + 10 = 275$$
$$5y = 265$$
$$y = 53$$

$$x = 4y + 10$$
$$x = 212 + 10$$
$$x = 232$$

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

2. Peter invests \$400, part at 4% per year and the rest at 6.5% per year. If the total interest for one year was \$24, then how much did he invest at each rate?

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

2. Peter invests $400, part at 4% per year and the rest at 6.5% per year. If the total interest for one year was $24, then how much did he invest at each rate?

interest rate	amount invested

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interest rate	amount invested
4%	
6.5%	

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interest rate	amount invested
4%	x
6.5%	

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Solve each of the problems algebraically.

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interest rate	amount invested
4%	x
6.5%	y

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interest rate	amount invested
4%	x
6.5%	y
totals:	400

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

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2. Peter invests $400, part at 4% per year and the rest at 6.5% per year. If the total interest for one year was $24, then how much did he invest at each rate?

x

interest rate	amount invested
4%	x
6.5%	y
totals:	400

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Solve each of the problems algebraically.

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2. Peter invests $400, part at 4% per year and the rest at 6.5% per year. If the total interest for one year was $24, then how much did he invest at each rate?

$x +$

interest rate	amount invested
4%	x
6.5%	y
totals:	400

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$x + y$

interest rate	amount invested
4%	x
6.5%	y
totals:	400

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interest rate	amount invested
4%	x
6.5%	y
totals:	400

x + y =

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2. Peter invests $400, part at 4% per year and the rest at 6.5% per year. If the total interest for one year was $24, then how much did he invest at each rate?

$$x + y = 400$$

interest rate	amount invested
4%	x
6.5%	y
totals:	400

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interest rate	amount invested	interest earned
4%	x	
6.5%	y	
totals:	400	

$$x + y = 400$$

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2. Peter invests \$400, part at 4% per year and the rest at 6.5% per year. If the total interest for one year was \$24, then how much did he invest at each rate?

interest rate	amount invested	interest earned
4%	x	.04x
6.5%	y	
totals:	400	

$$x + y = 400$$

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$x + y = 400$

interest rate	amount invested	interest earned
4%	x	.04x
6.5%	y	.065y
totals:	400	

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interest rate	amount invested	interest earned
4%	x	$.04x$
6.5%	y	$.065y$
totals:	400	24

$$x + y = 400$$

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4%	x	$.04x$
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$x + y = 400$

$.04x$

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4%	x	.04x
6.5%	y	.065y
totals:	400	24

$x + y = 400$

$.04x +$

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4%	x	.04x
6.5%	y	.065y
totals:	400	24

$$x + y = 400$$

$$.04x + .065y$$

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4%	x	.04x
6.5%	y	.065y
totals:	400	24

$x + y = 400$

$.04x + .065y =$

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interest rate	amount invested	interest earned
4%	x	.04x
6.5%	y	.065y
totals:	400	24

$$x + y = 400$$

$$.04x + .065y = 24$$

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

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Multiply both sides by 1,000.

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'Add' the equations.

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Solve for y.

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$$y =$$

Solve for y.

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$$-40x - 40y = -16000$$

$$25y = 8000$$

$$y = 320$$

Solve for y.

Algebra II Class Worksheet #5 Unit 2

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x

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$y = 320$

$x = 80$

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$$25y = 8000$$

$$y = 320$$

$$x = 80$$

He invested \$320 at 6.5%

Algebra II Class Worksheet #5 Unit 2

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$$25y = 8000$$

$$y = 320$$

$$x = 80$$

He invested $320 at 6.5% and $80 at 4%.

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$$-40x - 40y = -16000$$

$$25y = 8000$$

$$y = 320$$

$$x = 80$$

He invested $320 at 6.5% and $80 at 4%.

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

3. A collection of ordinary dimes and nickels is worth a total of $10. If the number of dimes is five less than twice the number of nickels, then how many coins of each type are in the collection?

Algebra II   Class Worksheet #5   Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

3. A collection of ordinary dimes and nickels is worth a total of $10. If the number of dimes is five less than twice the number of nickels, then how many coins of each type are in the collection?

	number of coins
dimes:	
nickels:	

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

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	number of coins
dimes:	x
nickels:	y

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

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3. A collection of ordinary dimes and nickels is worth a total of $10. If the number of dimes is five less than twice the number of nickels, then how many coins of each type are in the collection?

	number of coins	value of the coins
dimes:	x	
nickels:	y	

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

3. A collection of ordinary dimes and nickels is worth a total of \$10. If the number of dimes is five less than twice the number of nickels, then how many coins of each type are in the collection?

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

Algebra II Class Worksheet #5 Unit 2

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dimes:	x	$10x$ ¢
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$10x + 5y =$

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$$10x + 5y = 1000$$

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$10x + 5y = 1000$ (cents)

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$$10x + 5y = 1000$$

$$x$$

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Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

3. A collection of ordinary dimes and nickels is worth a total of $10. If the number of dimes is five less than twice the number of nickels, then how many coins of each type are in the collection?

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

$$10x + 5y = 1000$$

$$x =$$

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

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	number of coins	value of the coins
dimes:	x	$10x$ ¢
nickels:	y	$5y$ ¢

$$10x + 5y = 1000$$

$$x = 2y$$

Algebra II Class Worksheet #5 Unit 2

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$$10x + 5y = 1000$$

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$$10x + 5y = 1000$$
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nickels:	y	$5y$ ¢

$$10x + 5y = 1000 \qquad 10(2y - 5)$$

$$x = 2y - 5$$

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$x = 2y - 5$

$10(2y - 5) +$

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$x = 2y - 5$

Algebra II   Class Worksheet #5   Unit 2

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$$x = 2y - 5$$

$$10(2y - 5) + 5y = 1000$$

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$$x = 2y - 5$$

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$10(2y - 5) + 5y = 1000$

$20y$

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$$x = 2y - 5$$

$$10(2y - 5) + 5y = 1000$$

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$$10x + 5y = 1000$$

$$x = 2y - 5$$

$$10(2y - 5) + 5y = 1000$$

$$20y - 50$$

Algebra II   Class Worksheet #5   Unit 2

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$$10(2y - 5) + 5y = 1000$$
$$20y - 50 + 5y = 1000$$
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$$10(2y - 5) + 5y = 1000$$

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$$25y - 50 = 1000$$

$$25y$$

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$$10(2y - 5) + 5y = 1000$$
$$20y - 50 + 5y = 1000$$
$$25y - 50 = 1000$$
$$25y =$$

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$$10x + 5y = 1000$$
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$$20y - 50 + 5y = 1000$$
$$25y - 50 = 1000$$
$$25y = 1050$$

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$$20y - 50 + 5y = 1000$$
$$25y - 50 = 1000$$
$$25y = 1050$$
$$y$$

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nickels:	y	$5y$ ¢

$$10x + 5y = 1000$$
$$x = 2y - 5$$

$$10(2y - 5) + 5y = 1000$$
$$20y - 50 + 5y = 1000$$
$$25y - 50 = 1000$$
$$25y = 1050$$
$$y =$$

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dimes:	x	$10x$ ¢
nickels:	y	$5y$ ¢

$$10x + 5y = 1000$$
$$x = 2y - 5$$

$$10(2y - 5) + 5y = 1000$$
$$20y - 50 + 5y = 1000$$
$$25y - 50 = 1000$$
$$25y = 1050$$
$$y = 42$$

Algebra II Class Worksheet #5 Unit 2

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nickels:	y	5y ¢

$$10x + 5y = 1000$$
$$x = 2y - 5$$

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$$20y - 50 + 5y = 1000$$
$$25y - 50 = 1000$$
$$25y = 1050$$
$$y = 42$$

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

$$10x + 5y = 1000$$
$$x = 2y - 5$$

x

$$10(2y - 5) + 5y = 1000$$
$$20y - 50 + 5y = 1000$$
$$25y - 50 = 1000$$
$$25y = 1050$$
$$y = 42$$

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	number of coins	value of the coins
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$$10x + 5y = 1000$$
$$x = 2y - 5$$

$$x =$$

$$10(2y - 5) + 5y = 1000$$
$$20y - 50 + 5y = 1000$$
$$25y - 50 = 1000$$
$$25y = 1050$$
$$y = 42$$

Algebra II   Class Worksheet #5   Unit 2

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$$10x + 5y = 1000$$
$$x = 2y - 5$$

$$10(2y - 5) + 5y = 1000$$
$$20y - 50 + 5y = 1000$$
$$25y - 50 = 1000$$
$$25y = 1050$$
$$y = 42$$

$$x = 84$$

Algebra II Class Worksheet #5 Unit 2

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	number of coins	value of the coins
dimes:	x	$10x$ ¢
nickels:	y	$5y$ ¢

$$10x + 5y = 1000$$
$$x = 2y - 5$$

$$x = 84 -$$

$$10(2y - 5) + 5y = 1000$$
$$20y - 50 + 5y = 1000$$
$$25y - 50 = 1000$$
$$25y = 1050$$
$$y = 42$$

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dimes:	x	10x ¢
nickels:	y	5y ¢

$$10x + 5y = 1000$$
$$x = 2y - 5$$

$$x = 84 - 5$$

$$10(2y - 5) + 5y = 1000$$
$$20y - 50 + 5y = 1000$$
$$25y - 50 = 1000$$
$$25y = 1050$$
$$y = 42$$

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$$10x + 5y = 1000$$
$$x = 2y - 5$$

$$x = 84 - 5$$

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$$20y - 50 + 5y = 1000$$
$$25y - 50 = 1000$$
$$25y = 1050$$
$$y = 42$$

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$10x + 5y = 1000$

$x = 2y - 5$

$10(2y - 5) + 5y = 1000$

$20y - 50 + 5y = 1000$

$25y - 50 = 1000$

$25y = 1050$

$y = 42$

$x = 84 - 5$

x

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$$10x + 5y = 1000$$
$$x = 2y - 5$$

$$10(2y - 5) + 5y = 1000$$
$$20y - 50 + 5y = 1000$$
$$25y - 50 = 1000$$
$$25y = 1050$$
$$y = 42$$

$$x = 84 - 5$$
$$x =$$

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$$10x + 5y = 1000$$
$$x = 2y - 5$$

$$10(2y - 5) + 5y = 1000$$
$$20y - 50 + 5y = 1000$$
$$25y - 50 = 1000$$
$$25y = 1050$$
$$y = 42$$

$$x = 84 - 5$$
$$x = 79$$

Algebra II Class Worksheet #5 Unit 2

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dimes:	x	$10x$ ¢
nickels:	y	$5y$ ¢

$$10x + 5y = 1000$$
$$x = 2y - 5$$

$$10(2y - 5) + 5y = 1000$$
$$20y - 50 + 5y = 1000$$
$$25y - 50 = 1000$$
$$25y = 1050$$
$$y = 42$$

$$x = 84 - 5$$
$$x = 79$$

There are 79 dimes

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

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3. A collection of ordinary dimes and nickels is worth a total of $10. If the number of dimes is five less than twice the number of nickels, then how many coins of each type are in the collection?

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

$$10x + 5y = 1000$$
$$x = 2y - 5$$

$$10(2y - 5) + 5y = 1000$$
$$20y - 50 + 5y = 1000$$
$$25y - 50 = 1000$$
$$25y = 1050$$
$$y = 42$$

$$x = 84 - 5$$
$$x = 79$$

There are 79 dimes and 42 nickels.

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3. A collection of ordinary dimes and nickels is worth a total of $10. If the number of dimes is five less than twice the number of nickels, then how many coins of each type are in the collection?

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dimes:	x	10x ¢
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$$10x + 5y = 1000$$
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$$10(2y - 5) + 5y = 1000$$
$$20y - 50 + 5y = 1000$$
$$25y - 50 = 1000$$
$$25y = 1050$$
$$y = 42$$

$$x = 84 - 5$$
$$x = 79$$

There are 79 dimes and 42 nickels.

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

4. Coffee worth 80 cents per pound is mixed with coffee worth \$1.10 per pound to produce a 50 pound blend worth 89 cents per pound. How much of each type of coffee is used?

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

4. Coffee worth 80 cents per pound is mixed with coffee worth $1.10 per pound to produce a 50 pound blend worth 89 cents per pound. How much of each type of coffee is used?

number of pounds	value per pound

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

4. Coffee worth 80 cents per pound is mixed with coffee worth \$1.10 per pound to produce a 50 pound blend worth 89 cents per pound. How much of each type of coffee is used?

number of pounds	value per pound
x	

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

4. Coffee worth 80 cents per pound is mixed with coffee worth \$1.10 per pound to produce a 50 pound blend worth 89 cents per pound. How much of each type of coffee is used?

number of pounds	value per pound
x	80¢

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

4. Coffee worth 80 cents per pound is mixed with coffee worth \$1.10 per pound to produce a 50 pound blend worth 89 cents per pound. How much of each type of coffee is used?

number of pounds	value per pound
x	80¢
y	

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

4. Coffee worth 80 cents per pound is mixed with coffee worth \$1.10 per pound to produce a 50 pound blend worth 89 cents per pound. How much of each type of coffee is used?

number of pounds	value per pound
x	80¢
y	110¢

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

4. Coffee worth 80 cents per pound is mixed with coffee worth \$1.10 per pound to produce a 50 pound blend worth 89 cents per pound. How much of each type of coffee is used?

	number of pounds	value per pound
	x	80¢
	y	110¢
blend		

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

4. Coffee worth 80 cents per pound is mixed with coffee worth \$1.10 per pound to produce a 50 pound blend worth 89 cents per pound. How much of each type of coffee is used?

	number of pounds	value per pound
	x	80¢
	y	110¢
blend	50	

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

4. Coffee worth 80 cents per pound is mixed with coffee worth \$1.10 per pound to produce a 50 pound blend worth 89 cents per pound. How much of each type of coffee is used?

	number of pounds	value per pound
	x	80¢
	y	110¢
blend	50	89¢

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

4. Coffee worth 80 cents per pound is mixed with coffee worth \$1.10 per pound to produce a 50 pound blend worth 89 cents per pound. How much of each type of coffee is used?

	number of pounds	value per pound
	x	80¢
	y	110¢
blend	**50**	89¢

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

4. Coffee worth 80 cents per pound is mixed with coffee worth $1.10 per pound to produce a 50 pound blend worth 89 cents per pound. How much of each type of coffee is used?

	number of pounds	value per pound
	x	80¢
	y	110¢
blend	**50**	89¢

x

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

4. Coffee worth 80 cents per pound is mixed with coffee worth $1.10 per pound to produce a 50 pound blend worth 89 cents per pound. How much of each type of coffee is used?

	number of pounds	value per pound
	x	80¢
	y	110¢
blend	**50**	89¢

x +

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

4. Coffee worth 80 cents per pound is mixed with coffee worth \$1.10 per pound to produce a 50 pound blend worth 89 cents per pound. How much of each type of coffee is used?

	number of pounds	value per pound
	x	80¢
	y	110¢
blend	**50**	89¢

$x + y$

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

4. Coffee worth 80 cents per pound is mixed with coffee worth $1.10 per pound to produce a 50 pound blend worth 89 cents per pound. How much of each type of coffee is used?

	number of pounds	value per pound
	x	80¢
	y	110¢
blend	**50**	89¢

$x + y =$

Algebra II   Class Worksheet #5   Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

4. Coffee worth 80 cents per pound is mixed with coffee worth $1.10 per pound to produce a 50 pound blend worth 89 cents per pound. How much of each type of coffee is used?

	number of pounds	value per pound
	x	80¢
	y	110¢
blend	**50**	89¢

$x + y = 50$

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

4. Coffee worth 80 cents per pound is mixed with coffee worth \$1.10 per pound to produce a 50 pound blend worth 89 cents per pound. How much of each type of coffee is used?

	number of pounds	value per pound
	x	80¢
	y	110¢
blend	50	89¢

$x + y = 50$

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

4. Coffee worth 80 cents per pound is mixed with coffee worth \$1.10 per pound to produce a 50 pound blend worth 89 cents per pound. How much of each type of coffee is used?

	number of pounds	value per pound	total value
	x	80¢	
	y	110¢	
blend	50	89¢	

$$x + y = 50$$

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

4. Coffee worth 80 cents per pound is mixed with coffee worth \$1.10 per pound to produce a 50 pound blend worth 89 cents per pound. How much of each type of coffee is used?

	number of pounds	value per pound	total value
	x	80¢	$80x$ ¢
	y	110¢	
blend	50	89¢	

$$x + y = 50$$

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

4. Coffee worth 80 cents per pound is mixed with coffee worth $1.10 per pound to produce a 50 pound blend worth 89 cents per pound. How much of each type of coffee is used?

	number of pounds	value per pound	total value
	x	80¢	80x ¢
	y	110¢	110y ¢
blend	50	89¢	

$x + y = 50$

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

4. Coffee worth 80 cents per pound is mixed with coffee worth \$1.10 per pound to produce a 50 pound blend worth 89 cents per pound. How much of each type of coffee is used?

	number of pounds	value per pound	total value
	x	80¢	80x ¢
	y	110¢	110y ¢
blend	50	89¢	4450¢

$x + y = 50$

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

4. Coffee worth 80 cents per pound is mixed with coffee worth $1.10 per pound to produce a 50 pound blend worth 89 cents per pound. How much of each type of coffee is used?

	number of pounds	value per pound	total value
	x	80¢	**80x ¢**
	y	110¢	**110y ¢**
blend	50	89¢	**4450¢**

$x + y = 50$

Algebra II   Class Worksheet #5   Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

4. Coffee worth 80 cents per pound is mixed with coffee worth \$1.10 per pound to produce a 50 pound blend worth 89 cents per pound. How much of each type of coffee is used?

	number of pounds	value per pound	total value
	x	80¢	**80x ¢**
	y	110¢	**110y ¢**
blend	50	89¢	**4450¢**

$x + y = 50$

$80x$

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

4. Coffee worth 80 cents per pound is mixed with coffee worth \$1.10 per pound to produce a 50 pound blend worth 89 cents per pound. How much of each type of coffee is used?

	number of pounds	value per pound	total value
	x	80¢	**80x ¢**
	y	110¢	**110y ¢**
blend	50	89¢	**4450¢**

$x + y = 50$

$80x +$

Algebra II   Class Worksheet #5   Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

4. Coffee worth 80 cents per pound is mixed with coffee worth $1.10 per pound to produce a 50 pound blend worth 89 cents per pound. How much of each type of coffee is used?

	number of pounds	value per pound	total value
	x	80¢	**80x ¢**
	y	110¢	**110y ¢**
blend	50	89¢	**4450¢**

$x + y = 50$

$80x + 110y$

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

4. Coffee worth 80 cents per pound is mixed with coffee worth \$1.10 per pound to produce a 50 pound blend worth 89 cents per pound. How much of each type of coffee is used?

	number of pounds	value per pound	total value
	x	80¢	**80x ¢**
	y	110¢	**110y ¢**
blend	50	89¢	**4450¢**

$x + y = 50$

$80x + 110y =$

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

4. Coffee worth 80 cents per pound is mixed with coffee worth $1.10 per pound to produce a 50 pound blend worth 89 cents per pound. How much of each type of coffee is used?

	number of pounds	value per pound	total value
	x	80¢	**80x ¢**
	y	110¢	**110y ¢**
blend	50	89¢	**4450¢**

$$x + y = 50$$

$$80x + 110y = 4450$$

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

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4. Coffee worth 80 cents per pound is mixed with coffee worth $1.10 per pound to produce a 50 pound blend worth 89 cents per pound. How much of each type of coffee is used?

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	x	80¢	80x ¢
	y	110¢	110y ¢
blend	50	89¢	4450¢

$$x + y = 50$$

$$80x + 110y = 4450$$

Algebra II Class Worksheet #5 Unit 2

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	x	80¢	80x ¢
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$$x + y = 50$$

$$80x + 110y = 4450$$

Algebra II Class Worksheet #5 Unit 2

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	number of pounds	value per pound	total value
	x	80¢	80x ¢
	y	110¢	110y ¢
blend	50	89¢	4450¢

$x + y = 50$

$80x + 110y = 4450$

Divide both sides by 10.

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

4. Coffee worth 80 cents per pound is mixed with coffee worth \$1.10 per pound to produce a 50 pound blend worth 89 cents per pound. How much of each type of coffee is used?

	number of pounds	value per pound	total value
	x	80¢	80x ¢
	y	110¢	110y ¢
blend	50	89¢	4450¢

$x + y = 50$

$80x + 110y = 4450$

8x

Divide both sides by 10.

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

4. Coffee worth 80 cents per pound is mixed with coffee worth \$1.10 per pound to produce a 50 pound blend worth 89 cents per pound. How much of each type of coffee is used?

	number of pounds	value per pound	total value
	x	80¢	80x ¢
	y	110¢	110y ¢
blend	50	89¢	4450¢

$x + y = 50$

$80x + 110y = 4450$

$8x +$

Divide both sides by 10.

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

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4. Coffee worth 80 cents per pound is mixed with coffee worth \$1.10 per pound to produce a 50 pound blend worth 89 cents per pound. How much of each type of coffee is used?

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	x	80¢	80x ¢
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blend	50	89¢	4450¢

$x + y = 50$

$80x + 110y = 4450$

$8x + 11y$

Divide both sides by 10.

Algebra II Class Worksheet #5 Unit 2

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	number of pounds	value per pound	total value
	x	80¢	80x ¢
	y	110¢	110y ¢
blend	50	89¢	4450¢

$x + y = 50$

$80x + 110y = 4450$

$8x + 11y =$

Divide both sides by 10.

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

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	number of pounds	value per pound	total value
	x	80¢	80x ¢
	y	110¢	110y ¢
blend	50	89¢	4450¢

$$x + y = 50$$

$$80x + 110y = 4450$$

$$8x + 11y = 445$$

Divide both sides by 10.

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

4. Coffee worth 80 cents per pound is mixed with coffee worth \$1.10 per pound to produce a 50 pound blend worth 89 cents per pound. How much of each type of coffee is used?

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	x	80¢	80x ¢
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$$x + y = 50$$

$$80x + 110y = 4450$$

$$8x + 11y = 445$$

Algebra II Class Worksheet #5 Unit 2

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blend	50	89¢	4450¢

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Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

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	x	80¢	80x ¢
	y	110¢	110y ¢
blend	50	89¢	4450¢

$x + y = 50$

$80x + 110y = 4450$

$8x + 11y = 445$

Multiply both sides by -8.

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

4. Coffee worth 80 cents per pound is mixed with coffee worth \$1.10 per pound to produce a 50 pound blend worth 89 cents per pound. How much of each type of coffee is used?

	number of pounds	value per pound	total value
	x	80¢	80x ¢
	y	110¢	110y ¢
blend	50	89¢	4450¢

$x + y = 50$

$80x + 110y = 4450$

$8x + 11y = 445$

$-8x$

Multiply both sides by -8.

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

4. Coffee worth 80 cents per pound is mixed with coffee worth \$1.10 per pound to produce a 50 pound blend worth 89 cents per pound. How much of each type of coffee is used?

	number of pounds	value per pound	total value
	x	80¢	80x ¢
	y	110¢	110y ¢
blend	50	89¢	4450¢

$x + y = 50$

$80x + 110y = 4450$

$8x + 11y = 445$

$-8x -$

Multiply both sides by -8.

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

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4. Coffee worth 80 cents per pound is mixed with coffee worth \$1.10 per pound to produce a 50 pound blend worth 89 cents per pound. How much of each type of coffee is used?

	number of pounds	value per pound	total value
	x	80¢	80x ¢
	y	110¢	110y ¢
blend	50	89¢	4450¢

$x + y = 50$

$80x + 110y = 4450$

$8x + 11y = 445$

$-8x - 8y$

Multiply both sides by -8.

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

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4. Coffee worth 80 cents per pound is mixed with coffee worth \$1.10 per pound to produce a 50 pound blend worth 89 cents per pound. How much of each type of coffee is used?

	number of pounds	value per pound	total value
	x	80¢	80x ¢
	y	110¢	110y ¢
blend	50	89¢	4450¢

$x + y = 50$

$80x + 110y = 4450$

$8x + 11y = 445$

$-8x - 8y =$

Multiply both sides by -8.

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

4. Coffee worth 80 cents per pound is mixed with coffee worth \$1.10 per pound to produce a 50 pound blend worth 89 cents per pound. How much of each type of coffee is used?

	number of pounds	value per pound	total value
	x	80¢	80x ¢
	y	110¢	110y ¢
blend	50	89¢	4450¢

$x + y = 50$

$80x + 110y = 4450$

$8x + 11y = 445$

$-8x - 8y = -400$

Multiply both sides by -8.

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

4. Coffee worth 80 cents per pound is mixed with coffee worth \$1.10 per pound to produce a 50 pound blend worth 89 cents per pound. How much of each type of coffee is used?

	number of pounds	value per pound	total value
	x	80¢	80x ¢
	y	110¢	110y ¢
blend	50	89¢	4450¢

$$x + y = 50$$

$$80x + 110y = 4450$$

$$8x + 11y = 445$$

$$-8x - 8y = -400$$

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

4. Coffee worth 80 cents per pound is mixed with coffee worth \$1.10 per pound to produce a 50 pound blend worth 89 cents per pound. How much of each type of coffee is used?

	number of pounds	value per pound	total value
	x	80¢	80x ¢
	y	110¢	110y ¢
blend	50	89¢	4450¢

$$x + y = 50$$

$$80x + 110y = 4450$$

$$8x + 11y = 445$$

$$-8x - 8y = -400$$

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

4. Coffee worth 80 cents per pound is mixed with coffee worth \$1.10 per pound to produce a 50 pound blend worth 89 cents per pound. How much of each type of coffee is used?

	number of pounds	value per pound	total value
	x	80¢	80x ¢
	y	110¢	110y ¢
blend	50	89¢	4450¢

$$x + y = 50$$

$$80x + 110y = 4450$$

$$8x + 11y = 445$$

$$-8x - 8y = -400$$

'Add' the equations.

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

4. Coffee worth 80 cents per pound is mixed with coffee worth \$1.10 per pound to produce a 50 pound blend worth 89 cents per pound. How much of each type of coffee is used?

	number of pounds	value per pound	total value
	x	80¢	80x ¢
	y	110¢	110y ¢
blend	50	89¢	4450¢

$$x + y = 50$$

$$80x + 110y = 4450$$

$$8x + 11y = 445$$

$$-8x - 8y = -400$$

$$3y$$

'Add' the equations.

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

4. Coffee worth 80 cents per pound is mixed with coffee worth \$1.10 per pound to produce a 50 pound blend worth 89 cents per pound. How much of each type of coffee is used?

	number of pounds	value per pound	total value
	x	80¢	80x ¢
	y	110¢	110y ¢
blend	50	89¢	4450¢

$$x + y = 50$$

$$80x + 110y = 4450$$

$$8x + 11y = 445$$

$$-8x - 8y = -400$$

$$3y =$$

'Add' the equations.

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

4. Coffee worth 80 cents per pound is mixed with coffee worth $1.10 per pound to produce a 50 pound blend worth 89 cents per pound. How much of each type of coffee is used?

	number of pounds	value per pound	total value
	x	80¢	80x ¢
	y	110¢	110y ¢
blend	50	89¢	4450¢

$$x + y = 50$$

$$80x + 110y = 4450$$

$$8x + 11y = 445$$
$$-8x - 8y = -400$$

$$3y = 45$$

'Add' the equations.

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

4. Coffee worth 80 cents per pound is mixed with coffee worth \$1.10 per pound to produce a 50 pound blend worth 89 cents per pound. How much of each type of coffee is used?

	number of pounds	value per pound	total value
	x	80¢	80x ¢
	y	110¢	110y ¢
blend	50	89¢	4450¢

$$x + y = 50$$

$$80x + 110y = 4450$$

$$8x + 11y = 445$$

$$-8x - 8y = -400$$

$$3y = 45$$

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

4. Coffee worth 80 cents per pound is mixed with coffee worth \$1.10 per pound to produce a 50 pound blend worth 89 cents per pound. How much of each type of coffee is used?

	number of pounds	value per pound	total value
	x	80¢	80x ¢
	y	110¢	110y ¢
blend	50	89¢	4450¢

$$x + y = 50$$

$$80x + 110y = 4450$$

$$8x + 11y = 445$$

$$-8x - 8y = -400$$

$$3y = 45$$

$$y$$

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

4. Coffee worth 80 cents per pound is mixed with coffee worth \$1.10 per pound to produce a 50 pound blend worth 89 cents per pound. How much of each type of coffee is used?

	number of pounds	value per pound	total value
	x	80¢	80x ¢
	y	110¢	110y ¢
blend	50	89¢	4450¢

$$x + y = 50$$

$$80x + 110y = 4450$$

$$8x + 11y = 445$$

$$-8x - 8y = -400$$

$$3y = 45$$

$$y =$$

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

4. Coffee worth 80 cents per pound is mixed with coffee worth \$1.10 per pound to produce a 50 pound blend worth 89 cents per pound. How much of each type of coffee is used?

	number of pounds	value per pound	total value
	x	80¢	$80x$ ¢
	y	110¢	$110y$ ¢
blend	50	89¢	4450¢

$$x + y = 50$$

$$80x + 110y = 4450$$

$$8x + 11y = 445$$

$$-8x - 8y = -400$$

$$3y = 45$$

$$y = 15$$

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

4. Coffee worth 80 cents per pound is mixed with coffee worth \$1.10 per pound to produce a 50 pound blend worth 89 cents per pound. How much of each type of coffee is used?

	number of pounds	value per pound	total value
	x	80¢	80x ¢
	y	110¢	110y ¢
blend	50	89¢	4450¢

$$x + y = 50$$

$$80x + 110y = 4450$$

$$8x + 11y = 445$$

$$-8x - 8y = -400$$

$$3y = 45$$

$$y = 15$$

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

4. Coffee worth 80 cents per pound is mixed with coffee worth \$1.10 per pound to produce a 50 pound blend worth 89 cents per pound. How much of each type of coffee is used?

	number of pounds	value per pound	total value
	x	80¢	80x ¢
	y	110¢	110y ¢
blend	50	89¢	4450¢

$$x + y = 50$$

$$80x + 110y = 4450$$

$$8x + 11y = 445$$

$$-8x - 8y = -400$$

$$3y = 45$$

$$y = 15$$

$$x$$

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

4. Coffee worth 80 cents per pound is mixed with coffee worth \$1.10 per pound to produce a 50 pound blend worth 89 cents per pound. How much of each type of coffee is used?

	number of pounds	value per pound	total value
	x	80¢	80x ¢
	y	110¢	110y ¢
blend	50	89¢	4450¢

$$x + y = 50$$

$$80x + 110y = 4450$$

$$8x + 11y = 445$$

$$-8x - 8y = -400$$

$$3y = 45$$

$$y = 15$$

$$x =$$

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

4. Coffee worth 80 cents per pound is mixed with coffee worth \$1.10 per pound to produce a 50 pound blend worth 89 cents per pound. How much of each type of coffee is used?

	number of pounds	value per pound	total value
	x	80¢	80x ¢
	y	110¢	110y ¢
blend	50	89¢	4450¢

$$x + y = 50$$

$$80x + 110y = 4450$$

$$8x + 11y = 445$$

$$-8x - 8y = -400$$

$$3y = 45$$

$$y = 15$$

$$x = 35$$

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

4. Coffee worth 80 cents per pound is mixed with coffee worth \$1.10 per pound to produce a 50 pound blend worth 89 cents per pound. How much of each type of coffee is used?

	number of pounds	value per pound	total value
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$$8x + 11y = 445$$

$$-8x - 8y = -400$$

$$3y = 45$$

$$y = 15$$

$$x = 35$$

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

4. Coffee worth 80 cents per pound is mixed with coffee worth \$1.10 per pound to produce a 50 pound blend worth 89 cents per pound. How much of each type of coffee is used?

	number of pounds	value per pound	total value
	x	80¢	80x ¢
	y	110¢	110y ¢
blend	50	89¢	4450¢

$$x + y = 50$$

$$80x + 110y = 4450$$

$$8x + 11y = 445$$

$$-8x - 8y = -400$$

$$3y = 45$$

$$y = 15$$

$$x = 35$$

Use 35 pounds @ 80¢ per pound

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

4. Coffee worth 80 cents per pound is mixed with coffee worth \$1.10 per pound to produce a 50 pound blend worth 89 cents per pound. How much of each type of coffee is used?

	number of pounds	value per pound	total value
	x	80¢	80x ¢
	y	110¢	110y ¢
blend	50	89¢	4450¢

$$x + y = 50$$

$$80x + 110y = 4450$$

$$8x + 11y = 445$$

$$-8x - 8y = -400$$

$$3y = 45$$

$$y = 15$$

$$x = 35$$

Use 35 pounds @ 80¢ per pound and 15 pounds @ \$1.10 per pound.

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

4. Coffee worth 80 cents per pound is mixed with coffee worth \$1.10 per pound to produce a 50 pound blend worth 89 cents per pound. How much of each type of coffee is used?

	number of pounds	value per pound	total value
	x	80¢	80x ¢
	y	110¢	110y ¢
blend	50	89¢	4450¢

$$x + y = 50$$

$$80x + 110y = 4450$$

$$8x + 11y = 445$$

$$-8x - 8y = -400$$

$$3y = 45$$

$$y = 15$$

$$x = 35$$

Use 35 pounds @ 80¢ per pound and 15 pounds @ \$1.10 per pound.

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. Six hot dogs and 4 sodas cost \$6.70. Five hot dogs and 7 sodas cost \$7.60. What is the cost of each item?

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. Six hot dogs and 4 sodas cost $6.70. Five hot dogs and 7 sodas cost $7.60. What is the cost of each item?

hot dog

soda

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. Six hot dogs and 4 sodas cost \$6.70. Five hot dogs and 7 sodas cost \$7.60. What is the cost of each item?

	cost each
hot dog	
soda	

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. Six hot dogs and 4 sodas cost \$6.70. Five hot dogs and 7 sodas cost \$7.60. What is the cost of each item?

	cost each
hot dog	x ¢
soda	

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. Six hot dogs and 4 sodas cost \$6.70. Five hot dogs and 7 sodas cost \$7.60. What is the cost of each item?

	cost each
hot dog	x ¢
soda	y ¢

Algebra II   Class Worksheet #5   Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. **Six hot dogs and 4 sodas cost $6.70.** Five hot dogs and 7 sodas cost $7.60. What is the cost of each item?

	cost each
hot dog	x ¢
soda	y ¢

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. **Six hot dogs and 4 sodas cost $6.70.** Five hot dogs and 7 sodas cost $7.60. What is the cost of each item?

	cost each
hot dog	x ¢
soda	y ¢

6x

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. **Six hot dogs and 4 sodas cost $6.70.** Five hot dogs and 7 sodas cost $7.60. What is the cost of each item?

	cost each
hot dog	x ¢
soda	y ¢

$6x +$

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. **Six hot dogs and 4 sodas cost $6.70.** Five hot dogs and 7 sodas cost $7.60. What is the cost of each item?

	cost each
hot dog	x ¢
soda	y ¢

$6x + 4y$

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. **Six hot dogs and 4 sodas cost $6.70.** Five hot dogs and 7 sodas cost $7.60. What is the cost of each item?

	cost each
hot dog	x ¢
soda	y ¢

$6x + 4y =$

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. **Six hot dogs and 4 sodas cost $6.70.** Five hot dogs and 7 sodas cost $7.60. What is the cost of each item?

	cost each
hot dog	x ¢
soda	y ¢

$$6x + 4y = 670$$

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. **Six hot dogs and 4 sodas cost $6.70.** Five hot dogs and 7 sodas cost $7.60. What is the cost of each item?

	cost each
hot dog	x ¢
soda	y ¢

$6x + 4y = 670$ (cents)

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. Six hot dogs and 4 sodas cost \$6.70. Five hot dogs and 7 sodas cost \$7.60. What is the cost of each item?

	cost each
hot dog	x ¢
soda	y ¢

$$6x + 4y = 670$$

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. Six hot dogs and 4 sodas cost \$6.70. **Five hot dogs and 7 sodas cost \$7.60.** What is the cost of each item?

	cost each
hot dog	x ¢
soda	y ¢

$$6x + 4y = 670$$

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. Six hot dogs and 4 sodas cost \$6.70. **Five hot dogs and 7 sodas cost \$7.60.** What is the cost of each item?

	cost each
hot dog	x ¢
soda	y ¢

$6x + 4y = 670$

$5x$

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. Six hot dogs and 4 sodas cost \$6.70. **Five hot dogs and 7 sodas cost \$7.60.** What is the cost of each item?

	cost each
hot dog	x ¢
soda	y ¢

$6x + 4y = 670$

$5x +$

Algebra II   Class Worksheet #5   Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. Six hot dogs and 4 sodas cost \$6.70. **Five hot dogs and 7 sodas cost \$7.60.** What is the cost of each item?

	cost each
hot dog	x ¢
soda	y ¢

$$6x + 4y = 670$$

$$5x + 7y$$

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. Six hot dogs and 4 sodas cost \$6.70. **Five hot dogs and 7 sodas cost \$7.60.** What is the cost of each item?

	cost each
hot dog	x ¢
soda	y ¢

$6x + 4y = 670$

$5x + 7y =$

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. Six hot dogs and 4 sodas cost \$6.70. **Five hot dogs and 7 sodas cost \$7.60.** What is the cost of each item?

	cost each
hot dog	x ¢
soda	y ¢

$$6x + 4y = 670$$

$$5x + 7y = 760$$

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. Six hot dogs and 4 sodas cost \$6.70. **Five hot dogs and 7 sodas cost \$7.60.** What is the cost of each item?

	cost each
hot dog	x ¢
soda	y ¢

$$6x + 4y = 670$$

$$5x + 7y = 760 \text{ (cents)}$$

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. Six hot dogs and 4 sodas cost \$6.70. Five hot dogs and 7 sodas cost \$7.60. What is the cost of each item?

	cost each
hot dog	x ¢
soda	y ¢

$$6x + 4y = 670$$

$$5x + 7y = 760$$

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. Six hot dogs and 4 sodas cost \$6.70. Five hot dogs and 7 sodas cost \$7.60. What is the cost of each item?

	cost each
hot dog	x ¢
soda	y ¢

$$6x + 4y = 670$$

$$5x + 7y = 760$$

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. Six hot dogs and 4 sodas cost \$6.70. Five hot dogs and 7 sodas cost \$7.60. What is the cost of each item?

	cost each
hot dog	x ¢
soda	y ¢

$$6x + 4y = 670$$

$$5x + 7y = 760$$

Multiply both sides by 7.

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. Six hot dogs and 4 sodas cost $6.70. Five hot dogs and 7 sodas cost $7.60. What is the cost of each item?

	cost each
hot dog	x ¢
soda	y ¢

$$6x + 4y = 670$$

$$5x + 7y = 760$$

42x

Multiply both sides by 7.

Algebra II   Class Worksheet #5   Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. Six hot dogs and 4 sodas cost $6.70. Five hot dogs and 7 sodas cost $7.60. What is the cost of each item?

	cost each
hot dog	x ¢
soda	y ¢

$$6x + 4y = 670$$

$$5x + 7y = 760$$

$$42x +$$

Multiply both sides by 7.

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. Six hot dogs and 4 sodas cost $6.70. Five hot dogs and 7 sodas cost $7.60. What is the cost of each item?

	cost each
hot dog	x ¢
soda	y ¢

$$6x + 4y = 670$$

$$5x + 7y = 760$$

$$42x + 28y$$

Multiply both sides by 7.

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. Six hot dogs and 4 sodas cost \$6.70. Five hot dogs and 7 sodas cost \$7.60. What is the cost of each item?

	cost each
hot dog	x ¢
soda	y ¢

$$6x + 4y = 670$$

$$5x + 7y = 760$$

$$42x + 28y =$$

Multiply both sides by 7.

Algebra II   Class Worksheet #5   Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. Six hot dogs and 4 sodas cost \$6.70. Five hot dogs and 7 sodas cost \$7.60. What is the cost of each item?

	cost each
hot dog	x ¢
soda	y ¢

$$6x + 4y = 670$$

$$5x + 7y = 760$$

$$42x + 28y = 4690$$

Multiply both sides by 7.

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. Six hot dogs and 4 sodas cost $6.70. Five hot dogs and 7 sodas cost $7.60. What is the cost of each item?

	cost each
hot dog	x ¢
soda	y ¢

$$6x + 4y = 670$$

$$5x + 7y = 760$$

$$42x + 28y = 4690$$

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. Six hot dogs and 4 sodas cost \$6.70. Five hot dogs and 7 sodas cost \$7.60. What is the cost of each item?

	cost each
hot dog	x ¢
soda	y ¢

$$6x + 4y = 670$$

$$5x + 7y = 760$$

$$42x + 28y = 4690$$

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. Six hot dogs and 4 sodas cost $6.70. Five hot dogs and 7 sodas cost $7.60. What is the cost of each item?

	cost each
hot dog	x ¢
soda	y ¢

$$6x + 4y = 670$$

$$5x + 7y = 760$$

$$42x + 28y = 4690$$

Multiply both sides by -4.

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. Six hot dogs and 4 sodas cost \$6.70. Five hot dogs and 7 sodas cost \$7.60. What is the cost of each item?

	cost each
hot dog	x ¢
soda	y ¢

$6x + 4y = 670$

$5x + 7y = 760$

$42x + 28y = 4690$

$-20x$

Multiply both sides by -4.

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. Six hot dogs and 4 sodas cost \$6.70. Five hot dogs and 7 sodas cost \$7.60. What is the cost of each item?

	cost each
hot dog	x ¢
soda	y ¢

$$6x + 4y = 670$$

$$5x + 7y = 760$$

$$42x + 28y = 4690$$

$$-20x -$$

Multiply both sides by -4.

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. Six hot dogs and 4 sodas cost \$6.70. Five hot dogs and 7 sodas cost \$7.60. What is the cost of each item?

	cost each
hot dog	x ¢
soda	y ¢

$$6x + 4y = 670$$

$$5x + 7y = 760$$

$$42x + 28y = 4690$$

$$-20x - 28y$$

Multiply both sides by -4.

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. Six hot dogs and 4 sodas cost \$6.70. Five hot dogs and 7 sodas cost \$7.60. What is the cost of each item?

	cost each
hot dog	x ¢
soda	y ¢

$$6x + 4y = 670$$

$$5x + 7y = 760$$

$$42x + 28y = 4690$$

$$-20x - 28y =$$

Multiply both sides by -4.

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. Six hot dogs and 4 sodas cost \$6.70. Five hot dogs and 7 sodas cost \$7.60. What is the cost of each item?

	cost each
hot dog	x ¢
soda	y ¢

$$6x + 4y = 670$$

$$5x + 7y = 760$$

$$42x + 28y = 4690$$

$$-20x - 28y = -3040$$

Multiply both sides by -4.

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. Six hot dogs and 4 sodas cost \$6.70. Five hot dogs and 7 sodas cost \$7.60. What is the cost of each item?

	cost each
hot dog	x ¢
soda	y ¢

$$6x + 4y = 670$$

$$5x + 7y = 760$$

$$42x + 28y = 4690$$

$$-20x - 28y = -3040$$

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. Six hot dogs and 4 sodas cost \$6.70. Five hot dogs and 7 sodas cost \$7.60. What is the cost of each item?

	cost each
hot dog	x ¢
soda	y ¢

$$6x + 4y = 670$$

$$5x + 7y = 760$$

$$42x + 28y = 4690$$

$$-20x - 28y = -3040$$

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. Six hot dogs and 4 sodas cost \$6.70. Five hot dogs and 7 sodas cost \$7.60. What is the cost of each item?

	cost each
hot dog	x ¢
soda	y ¢

$$6x + 4y = 670$$

$$5x + 7y = 760$$

$$42x + 28y = 4690$$

$$-20x - 28y = -3040$$

'Add' the equations.

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. Six hot dogs and 4 sodas cost $6.70. Five hot dogs and 7 sodas cost $7.60. What is the cost of each item?

	cost each
hot dog	x ¢
soda	y ¢

$$6x + 4y = 670$$

$$5x + 7y = 760$$

$$42x + 28y = 4690$$

$$-20x - 28y = -3040$$

$$22x$$

'Add' the equations.

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. Six hot dogs and 4 sodas cost \$6.70. Five hot dogs and 7 sodas cost \$7.60. What is the cost of each item?

	cost each
hot dog	x ¢
soda	y ¢

$$6x + 4y = 670$$

$$5x + 7y = 760$$

$$42x + 28y = 4690$$

$$-20x - 28y = -3040$$

$$22x =$$

‘Add’ the equations.

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. Six hot dogs and 4 sodas cost \$6.70. Five hot dogs and 7 sodas cost \$7.60. What is the cost of each item?

	cost each
hot dog	x ¢
soda	y ¢

$$6x + 4y = 670$$

$$5x + 7y = 760$$

$$42x + 28y = 4690$$

$$-20x - 28y = -3040$$

$$22x = 1650$$

'Add' the equations.

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. Six hot dogs and 4 sodas cost \$6.70. Five hot dogs and 7 sodas cost \$7.60. What is the cost of each item?

	cost each
hot dog	x ¢
soda	y ¢

$$6x + 4y = 670$$

$$5x + 7y = 760$$

$$42x + 28y = 4690$$

$$-20x - 28y = -3040$$

$$22x = 1650$$

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. Six hot dogs and 4 sodas cost \$6.70. Five hot dogs and 7 sodas cost \$7.60. What is the cost of each item?

	cost each
hot dog	x ¢
soda	y ¢

$$6x + 4y = 670$$

$$5x + 7y = 760$$

$$42x + 28y = 4690$$

$$-20x - 28y = -3040$$

$$22x = 1650$$

$$x$$

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. Six hot dogs and 4 sodas cost \$6.70. Five hot dogs and 7 sodas cost \$7.60. What is the cost of each item?

	cost each
hot dog	x ¢
soda	y ¢

$$6x + 4y = 670$$

$$5x + 7y = 760$$

$$42x + 28y = 4690$$

$$-20x - 28y = -3040$$

$$22x = 1650$$

$$x =$$

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. Six hot dogs and 4 sodas cost \$6.70. Five hot dogs and 7 sodas cost \$7.60. What is the cost of each item?

	cost each
hot dog	x ¢
soda	y ¢

$$6x + 4y = 670$$
$$5x + 7y = 760$$

$$42x + 28y = 4690$$
$$-20x - 28y = -3040$$

$$22x = 1650$$
$$x = 75$$

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. Six hot dogs and 4 sodas cost $6.70. Five hot dogs and 7 sodas cost $7.60. What is the cost of each item?

	cost each
hot dog	x ¢
soda	y ¢

$$6x + 4y = 670$$

$$5x + 7y = 760$$

$$42x + 28y = 4690$$

$$-20x - 28y = -3040$$

$$22x = 1650$$

$$x = 75$$

Algebra II   Class Worksheet #5   Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. Six hot dogs and 4 sodas cost \$6.70. Five hot dogs and 7 sodas cost \$7.60. What is the cost of each item?

	cost each
hot dog	x ¢
soda	y ¢

$$6x + 4y = 670$$

Multiply both sides by -5.

$$5x + 7y = 760$$

$$42x + 28y = 4690$$
$$-20x - 28y = -3040$$

$$22x = 1650$$
$$x = 75$$

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. Six hot dogs and 4 sodas cost \$6.70. Five hot dogs and 7 sodas cost \$7.60. What is the cost of each item?

	cost each
hot dog	x ¢
soda	y ¢

$6x + 4y = 670$ Multiply both sides by -5.

$5x + 7y = 760$

$42x + 28y = 4690$ -30x

$-20x - 28y = -3040$

$22x = 1650$

$x = 75$

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. Six hot dogs and 4 sodas cost \$6.70. Five hot dogs and 7 sodas cost \$7.60. What is the cost of each item?

	cost each
hot dog	x ¢
soda	y ¢

$$6x + 4y = 670$$

Multiply both sides by -5.

$$5x + 7y = 760$$

$$42x + 28y = 4690$$

$$-20x - 28y = -3040$$

$-30x -$

$$22x = 1650$$

$$x = 75$$

Algebra II   Class Worksheet #5   Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. Six hot dogs and 4 sodas cost \$6.70. Five hot dogs and 7 sodas cost \$7.60. What is the cost of each item?

	cost each
hot dog	x ¢
soda	y ¢

$$6x + 4y = 670$$

Multiply both sides by -5.

$$5x + 7y = 760$$

$$42x + 28y = 4690$$

$$-30x - 20y$$

$$-20x - 28y = -3040$$

$$22x = 1650$$

$$x = 75$$

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. Six hot dogs and 4 sodas cost \$6.70. Five hot dogs and 7 sodas cost \$7.60. What is the cost of each item?

	cost each
hot dog	x ¢
soda	y ¢

$6x + 4y = 670$ Multiply both sides by -5.

$5x + 7y = 760$

$42x + 28y = 4690$ $-30x - 20y =$

$-20x - 28y = -3040$

$22x = 1650$

$x = 75$

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. Six hot dogs and 4 sodas cost \$6.70. Five hot dogs and 7 sodas cost \$7.60. What is the cost of each item?

	cost each
hot dog	x ¢
soda	y ¢

$$6x + 4y = 670$$

Multiply both sides by -5.

$$5x + 7y = 760$$

$$42x + 28y = 4690$$

$$-30x - 20y = -3350$$

$$-20x - 28y = -3040$$

$$22x = 1650$$

$$x = 75$$

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. Six hot dogs and 4 sodas cost \$6.70. Five hot dogs and 7 sodas cost \$7.60. What is the cost of each item?

	cost each
hot dog	x ¢
soda	y ¢

$$6x + 4y = 670$$

$$5x + 7y = 760$$

$$42x + 28y = 4690 \qquad -30x - 20y = -3350$$

$$-20x - 28y = -3040$$

$$22x = 1650$$

$$x = 75$$

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. Six hot dogs and 4 sodas cost \$6.70. Five hot dogs and 7 sodas cost \$7.60. What is the cost of each item?

	cost each
hot dog	x ¢
soda	y ¢

$$6x + 4y = 670$$

$$5x + 7y = 760$$

$$42x + 28y = 4690 \qquad -30x - 20y = -3350$$

$$-20x - 28y = -3040$$

$$22x = 1650$$

$$x = 75$$

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. Six hot dogs and 4 sodas cost \$6.70. Five hot dogs and 7 sodas cost \$7.60. What is the cost of each item?

	cost each
hot dog	x ¢
soda	y ¢

$$6x + 4y = 670$$

$$5x + 7y = 760$$

Multiply both sides by 6.

$$42x + 28y = 4690 \qquad -30x - 20y = -3350$$

$$-20x - 28y = -3040$$

$$22x = 1650$$

$$x = 75$$

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

5. Six hot dogs and 4 sodas cost \$6.70. Five hot dogs and 7 sodas cost \$7.60. What is the cost of each item?

	cost each
hot dog	x ¢
soda	y ¢

$6x + 4y = 670$

$5x + 7y = 760$ Multiply both sides by 6.

$42x + 28y = 4690$ $-30x - 20y = -3350$

$-20x - 28y = -3040$ $30x$

$22x = 1650$

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$$\begin{aligned} 42x + 28y &= 4690 \\ -20x - 28y &= -3040 \end{aligned} \qquad \begin{aligned} -30x - 20y &= -3350 \\ 30x + 42y &= 4560 \end{aligned}$$

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'Add' the equations.

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Each hot dog costs 75¢,

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Each hot dog costs 75¢, and each soda costs 55¢.

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6. A chemist has one solution which is 20% acid and another solution which is 70% acid. How many milliliters of each should she use to make 60 ml of a solution which is 35% acid?

volume of solution	percent acid

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volume of solution	percent acid
x ml	

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volume of solution	percent acid
x ml	20%

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Multiply both sides by 10.

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	y ml	70%	0.7y ml
mixture:	60 ml	35%	21 ml

$x + y = 60$

$0.2x + 0.7y = 21$

$2x + 7y$

Multiply both sides by 10.

Algebra II Class Worksheet #5 Unit 2

Solve each of the problems algebraically.

Use a system of 2 equations with 2 variables.

6. A chemist has one solution which is 20% acid and another solution which is 70% acid. How many milliliters of each should she use to make 60 ml of a solution which is 35% acid?

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Multiply both sides by -2.

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$-2x - 2y$

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Algebra II   Class Worksheet #5   Unit 2

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'Add' the equations.

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$$5y$$

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$$2x + 7y = 210$$

$$-2x - 2y = -120$$

$$5y = 90$$

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$$2x + 7y = 210$$

$$-2x - 2y = -120$$

$$5y = 90$$

$$y = 18$$

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$$x + y = 60$$

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$$-2x - 2y = -120$$

$$5y = 90$$

$$y = 18$$

$$x = 42$$

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$$5y = 90$$
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$$5y = 90$$

$$y = 18$$

$$x = 42$$

She should use 42 milliliters of the 20% solution

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$$5y = 90$$
$$y = 18$$
$$x = 42$$

She should use 42 milliliters of the 20% solution and 18 milliliters of the 70% solution.

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Algebra II   Class Worksheet #5   Unit 2

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Good luck on the homework !!

	y ml	70%	0.7y ml
mixture:	60 ml	35%	21 ml

$$2x + 7y = 210$$
$$-2x - 2y = -120$$
$$5y = 90$$
$$y = 18$$
$$x = 42$$

She should use 42 milliliters of the 20% solution and 18 milliliters of the 70% solution.