Algebra I Lesson #2 Unit 3 Class Worksheet #2 For Worksheets #2 & 3

Solve each of the following problems algebraically (one variable solution).

Solve each of the following problems algebraically (one variable solution).

1. The length of a rectangle is seven inches more than the width. The perimeter of the rectangle is 26 inches. What are the dimensions (the length and the width) of the rectangle?

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Solve each of the following problems algebraically (one variable solution).



- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.

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- 1. **R**epresent all unknowns in terms of the same variable.
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- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.

Solve each of the following problems algebraically (one variable solution).



$$2\mathbf{x} + 2(\mathbf{x} + 7)$$

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.

Solve each of the following problems algebraically (one variable solution).



$$2\mathbf{x} + 2(\mathbf{x} + 7) =$$

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.

Solve each of the following problems algebraically (one variable solution).



$$2x + 2(x + 7) = 26$$

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.

Solve each of the following problems algebraically (one variable solution).



$$2x + 2(x + 7) = 26$$

- 1. **R**epresent all unknowns in terms of the same variable.
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- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. **Solve the equation**.

Solve each of the following problems algebraically (one variable solution).



$$2x + 2(x + 7) = 26$$

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. Solve the equation.

Solve each of the following problems algebraically (one variable solution).



$$2x + 2(x + 7) = 20$$

 $2x + 7$

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.
- 3. **S**olve the equation.

Solve each of the following problems algebraically (one variable solution).



$$2x + 2(x + 7) = 26$$

 $2x + 2x$

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. Solve the equation.

Solve each of the following problems algebraically (one variable solution).



$$2x + 2(x + 7) = 26$$

 $2x + 2x + 7$

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.
- 3. Solve the equation.

Solve each of the following problems algebraically (one variable solution).



$$2x + 2(x + 7) = 26$$

 $2x + 2x + 14$

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.
- 3. **S**olve the equation.

Solve each of the following problems algebraically (one variable solution).



$$2x + 2(x + 7) = 26$$

 $2x + 2x + 14 =$

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.
- 3. **S**olve the equation.

Solve each of the following problems algebraically (one variable solution).



$$2x + 2(x + 7) = 26$$

 $2x + 2x + 14 = 26$

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.
- 3. **Solve the equation**.

Solve each of the following problems algebraically (one variable solution).



- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. Solve the equation.

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- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. Solve the equation.

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- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. **Solve the equation**.

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- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.
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- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.
- 3. **Solve the equation**.

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- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.
- 3. Solve the equation.

Solve each of the following problems algebraically (one variable solution).



- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.
- 3. Solve the equation.

Solve each of the following problems algebraically (one variable solution).



$$2x + 2(x + 7) = 26$$

$$2x + 2x + 14 = 26$$

$$4x + 14 = 26$$

$$4x = 12$$

x

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.
- 3. **Solve the equation**.

Solve each of the following problems algebraically (one variable solution).



$$2x + 2(x + 7) = 26$$

$$2x + 2x + 14 = 26$$

$$4x + 14 = 26$$

$$4x = 12$$

$$x =$$

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. **S**olve the equation.

Solve each of the following problems algebraically (one variable solution).



$$2x + 2(x + 7) = 26$$

$$2x + 2x + 14 = 26$$

$$4x + 14 = 26$$

$$4x = 12$$

$$x = 3$$

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. **S**olve the equation.
Solve each of the following problems algebraically (one variable solution).



$$2x + 2(x + 7) = 26$$

$$2x + 2x + 14 = 26$$

$$4x + 14 = 26$$

$$4x = 12$$

$$x = 3$$

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. Solve the equation.
- 4. Answer the question (complete sentence).

Solve each of the following problems algebraically (one variable solution).



$$2x + 2(x + 7) = 26$$

$$2x + 2x + 14 = 26$$

$$4x + 14 = 26$$

$$4x = 12$$

$$x = 3$$

$$x + 7$$

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. Solve the equation.
- 4. Answer the question (complete sentence).

Solve each of the following problems algebraically (one variable solution).



$$2x + 2(x + 7) = 26$$

$$2x + 2x + 14 = 26$$

$$4x + 14 = 26$$

$$4x = 12$$

$$x = 3$$

$$x + 7 =$$

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. Solve the equation.
- 4. Answer the question (complete sentence).

Solve each of the following problems algebraically (one variable solution).



$$2x + 2(x + 7) = 26$$

$$2x + 2x + 14 = 26$$

$$4x + 14 = 26$$

$$4x = 12$$

$$x = 3$$

$$x + 7 = 10$$

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. Solve the equation.
- 4. Answer the question (complete sentence).

Solve each of the following problems algebraically (one variable solution).

$$x + 7$$

$$2x + 2(x + 7) = 26$$

$$2x + 2x + 14 = 26$$

$$4x + 14 = 26$$

$$4x = 12$$

$$x = 3$$

$$x + 7 = 10$$
The rectangle is 10 inches long

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. Solve the equation.
- 4. Answer the question (complete sentence).

Solve each of the following problems algebraically (one variable solution).



- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. Solve the equation.
- 4. Answer the question (complete sentence).

Solve each of the following problems algebraically (one variable solution).

1. The length of a rectangle is seven inches more than the width. The perimeter of the rectangle is 26 inches. What are the dimensions (the length and the width) of the rectangle?



x + 7 = 10

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.
- 3. Solve the equation.
- 4. Answer the question (complete sentence).
- 5. Check your solution.

Solve each of the following problems algebraically (one variable solution).

Solve each of the following problems algebraically (one variable solution).

2. The length of a rectangle is two times the width. The perimeter of the rectangle is 24 inches. What are the dimensions of the rectangle?

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2. The length of a rectangle is two times the width. The perimeter of the rectangle is 24 inches. What are the dimensions of the rectangle?



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2. The length of a rectangle is two times the width. The perimeter of the rectangle is 24 inches. What are the dimensions of the rectangle?



Solve each of the following problems algebraically (one variable solution).

2. The length of a rectangle is two times the width. The perimeter of the rectangle is 24 inches. What are the dimensions of the rectangle?



Solve each of the following problems algebraically (one variable solution).

2. The length of a rectangle is two times the width. The perimeter of the rectangle is 24 inches. What are the dimensions of the rectangle?



Solve each of the following problems algebraically (one variable solution).



- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.

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- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. Solve the equation.
- 4. Answer the question (complete sentence).
- 5. Check your solution.
Solve each of the following problems algebraically (one variable solution).

Solve each of the following problems algebraically (one variable solution).

3. The length of a rectangle is five inches more than two times its width. The perimeter of the rectangle is 46 inches. What are the dimensions of the rectangle?

Solve each of the following problems algebraically (one variable solution).

3. The length of a rectangle is five inches more than two times its width. The perimeter of the rectangle is 46 inches. What are the dimensions of the rectangle?



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- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.

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- 1. **R**epresent all unknowns in terms of the same variable.
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- 2. Write an **E**quation.

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- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.

Solve each of the following problems algebraically (one variable solution).



$$2x + 2(2x + 5)$$

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.

Solve each of the following problems algebraically (one variable solution).



$$2x + 2(2x + 5) =$$

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.

Solve each of the following problems algebraically (one variable solution).



$$2x + 2(2x + 5) = 46$$

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.

Solve each of the following problems algebraically (one variable solution).



$$2x + 2(2x + 5) = 46$$

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.

Solve each of the following problems algebraically (one variable solution).



$$2x + 2(2x + 5) = 46$$

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. Solve the equation.

Solve each of the following problems algebraically (one variable solution).



$$2x + 2(2x + 5) = 46$$

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.
- 3. **S**olve the equation.

Solve each of the following problems algebraically (one variable solution).



- 2. Write an Equation.
- 3. **Solve the equation**.

Solve each of the following problems algebraically (one variable solution).



$$2x + 2(2x + 5) = 46$$

 $2x + 4x$

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.
- 3. **Solve the equation**.

Solve each of the following problems algebraically (one variable solution).



$$2x + 2(2x + 5) = 46$$

 $2x + 4x +$

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. Solve the equation.

Solve each of the following problems algebraically (one variable solution).



$$2x + 2(2x + 5) = 46$$

 $2x + 4x + 10$

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. Solve the equation.

Solve each of the following problems algebraically (one variable solution).



$$2x + 2(2x + 5) = 46$$

 $2x + 4x + 10 =$

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. Solve the equation.

Solve each of the following problems algebraically (one variable solution).



$$2x + 2(2x + 5) = 46$$

 $2x + 4x + 10 = 46$

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. Solve the equation.

Solve each of the following problems algebraically (one variable solution).



- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. Solve the equation.

Solve each of the following problems algebraically (one variable solution).



- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
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- 1. **R**epresent all unknowns in terms of the same variable.
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- 1. **R**epresent all unknowns in terms of the same variable.
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Solve each of the following problems algebraically (one variable solution).



- 1. **R**epresent all unknowns in terms of the same variable.
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- 3. Solve the equation.

Solve each of the following problems algebraically (one variable solution).



- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. Solve the equation.

Solve each of the following problems algebraically (one variable solution).



- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. Solve the equation.

Solve each of the following problems algebraically (one variable solution).



- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. Solve the equation.

Solve each of the following problems algebraically (one variable solution).



$$2x + 2(2x + 5) = 46$$

$$2x + 4x + 10 = 46$$

$$6x + 10 = 46$$

$$6x = 36$$

x

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. Solve the equation.

Solve each of the following problems algebraically (one variable solution).



$$2x + 2(2x + 5) = 46$$

$$2x + 4x + 10 = 46$$

$$6x + 10 = 46$$

$$6x = 36$$

$$x = 36$$

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. Solve the equation.
Solve each of the following problems algebraically (one variable solution).



$$2x + 2(2x + 5) = 46$$

$$2x + 4x + 10 = 46$$

$$6x + 10 = 46$$

$$6x = 36$$

$$x = 6$$

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. Solve the equation.

Solve each of the following problems algebraically (one variable solution).



$$2x + 2(2x + 5) = 46$$

$$2x + 4x + 10 = 46$$

$$6x + 10 = 46$$

$$6x = 36$$

$$x = 6$$

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. **Solve the equation**.
- 4. Answer the question (complete sentence).

Solve each of the following problems algebraically (one variable solution).



$$2x + 2(2x + 5) = 46$$

$$2x + 4x + 10 = 46$$

$$6x + 10 = 46$$

$$6x = 36$$

$$x = 6$$

$$2x + 5$$

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. Solve the equation.
- 4. Answer the question (complete sentence).

Solve each of the following problems algebraically (one variable solution).



$$2x + 2(2x + 5) = 46$$

$$2x + 4x + 10 = 46$$

$$6x + 10 = 46$$

$$6x = 36$$

$$x = 6$$

$$2x + 5 = 100$$

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. Solve the equation.
- 4. Answer the question (complete sentence).

Solve each of the following problems algebraically (one variable solution).



$$2x + 2(2x + 5) = 46$$

$$2x + 4x + 10 = 46$$

$$6x + 10 = 46$$

$$6x = 36$$

$$x = 6$$

$$2x + 5 = 17$$

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. Solve the equation.
- 4. Answer the question (complete sentence).

Solve each of the following problems algebraically (one variable solution).

3. The length of a rectangle is five inches more than two times its width. The perimeter of the rectangle is 46 inches. What are the dimensions of the rectangle?

$$2x + 5$$

$$2x + 2(2x + 5) = 46$$

$$2x + 4x + 10 = 46$$

$$6x + 10 = 46$$

$$6x = 36$$

$$x = 6$$
The rectangle is 17 inches long

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. Solve the equation.
- 4. Answer the question (complete sentence).

2x + 5 = 17

Solve each of the following problems algebraically (one variable solution).



- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. Solve the equation.
- 4. Answer the question (complete sentence).

Solve each of the following problems algebraically (one variable solution).



- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. Solve the equation.
- 4. Answer the question (complete sentence).
- 5. Check your solution.

Solve each of the following problems algebraically (one variable solution).

Solve each of the following problems algebraically (one variable solution).

4. The length of a rectangle is two inches less than four times its width. The perimeter of the rectangle is 36 inches. What are the dimensions of the rectangle?

Solve each of the following problems algebraically (one variable solution).

4. The length of a rectangle is two inches less than four times its width. The perimeter of the rectangle is 36 inches. What are the dimensions of the rectangle?



Solve each of the following problems algebraically (one variable solution).

4. The length of a rectangle is two inches less than four times its width. The perimeter of the rectangle is 36 inches. What are the dimensions of the rectangle?



Solve each of the following problems algebraically (one variable solution).

4. The length of a rectangle is two inches less than four times its width. The perimeter of the rectangle is 36 inches. What are the dimensions of the rectangle?



Solve each of the following problems algebraically (one variable solution).

4. The length of a rectangle is two inches less than four times its width. The perimeter of the rectangle is 36 inches. What are the dimensions of the rectangle?



Solve each of the following problems algebraically (one variable solution).

4. The length of a rectangle is two inches less than four times its width. The perimeter of the rectangle is 36 inches. What are the dimensions of the rectangle?



Solve each of the following problems algebraically (one variable solution).

4. The length of a rectangle is two inches less than four times its width. The perimeter of the rectangle is 36 inches. What are the dimensions of the rectangle?



Solve each of the following problems algebraically (one variable solution).

4. The length of a rectangle is two inches less than four times its width. The perimeter of the rectangle is 36 inches. What are the dimensions of the rectangle?



Solve each of the following problems algebraically (one variable solution).



- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.

Solve each of the following problems algebraically (one variable solution).



- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.

Solve each of the following problems algebraically (one variable solution).



- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.

Solve each of the following problems algebraically (one variable solution).



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$$2\mathbf{x} + 2(4\mathbf{x} - 2)$$

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.

Solve each of the following problems algebraically (one variable solution).



$$2x + 2(4x - 2) =$$

- 1. **R**epresent all unknowns in terms of the same variable.
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Solve each of the following problems algebraically (one variable solution).



$$2x + 2(4x - 2) = 36$$

- 1. **R**epresent all unknowns in terms of the same variable.
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Solve each of the following problems algebraically (one variable solution).



$$2x + 2(4x - 2) = 36$$

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$$2x + 2(4x - 2) = 36$$

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.
- 3. **Solve the equation**.

Solve each of the following problems algebraically (one variable solution).



- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. **Solve the equation**.

Solve each of the following problems algebraically (one variable solution).



- 1. **R**epresent all unknowns in terms of the same variable.
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- 3. **Solve the equation**.

Solve each of the following problems algebraically (one variable solution).



- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. **Solve the equation**.

Solve each of the following problems algebraically (one variable solution).



- 1. **R**epresent all unknowns in terms of the same variable.
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- 3. **Solve the equation**.

Solve each of the following problems algebraically (one variable solution).



- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.
- 3. **S**olve the equation.

Solve each of the following problems algebraically (one variable solution).



$$2x + 2(4x - 2) = 36$$

 $2x + 8x - 4 =$

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.
- 3. Solve the equation.

Solve each of the following problems algebraically (one variable solution).



$$2x + 2(4x - 2) = 36$$
$$2x + 8x - 4 = 36$$

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.
- 3. **Solve the equation**.

Solve each of the following problems algebraically (one variable solution).



- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. **Solve the equation**.

Solve each of the following problems algebraically (one variable solution).



- 1. **R**epresent all unknowns in terms of the same variable.
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Solve each of the following problems algebraically (one variable solution).



- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. **Solve the equation**.

Solve each of the following problems algebraically (one variable solution).



- 1. **R**epresent all unknowns in terms of the same variable.

 - 2. Write an **E**quation.
 - 3. Solve the equation.

Solve each of the following problems algebraically (one variable solution).



- **x** =
- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. **Solve the equation**.

Solve each of the following problems algebraically (one variable solution).



- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. **Solve the equation**.

Solve each of the following problems algebraically (one variable solution).



- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. Solve the equation.
- 4. Answer the question (complete sentence).

Solve each of the following problems algebraically (one variable solution).

4. The length of a rectangle is two inches less than four times its width. The perimeter of the rectangle is 36 inches. What are the dimensions of the rectangle?



- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. Solve the equation.
- 4. Answer the question (complete sentence).

4x - 2

Solve each of the following problems algebraically (one variable solution).



$$2x + 2(4x - 2) = 36$$
$$2x + 8x - 4 = 36$$
$$10x - 4 = 36$$
$$10x = 40$$
$$x = 4$$
$$4x - 2 =$$

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. **Solve the equation**.
- 4. Answer the question (complete sentence).

Solve each of the following problems algebraically (one variable solution).



$$2x + 2(4x - 2) = 36$$
$$2x + 8x - 4 = 36$$
$$10x - 4 = 36$$
$$10x = 40$$
$$x = 4$$
$$4x - 2 = 14$$

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. **Solve the equation**.
- 4. Answer the question (complete sentence).

Solve each of the following problems algebraically (one variable solution).

4. The length of a rectangle is two inches less than four times its width. The perimeter of the rectangle is 36 inches. What are the dimensions of the rectangle?

$$4x-2$$

$$2x + 2(4x - 2) = 36$$

$$2x + 8x - 4 = 36$$

$$10x - 4 = 36$$

$$10x = 40$$

$$x = 4$$
The rectangle is 14 inches long

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. Solve the equation.
- 4. Answer the question (complete sentence).

4x - 2 = 14

Solve each of the following problems algebraically (one variable solution).



- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. Solve the equation.
- 4. Answer the question (complete sentence).

Solve each of the following problems algebraically (one variable solution).



- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. Solve the equation.
- 4. Answer the question (complete sentence).
- 5. Check your solution.

Solve each of the following problems algebraically (one variable solution).

Solve each of the following problems algebraically (one variable solution).

5. A collection of ordinary dimes and nickels is worth \$5. If the number of dimes is five more than the number of nickels, then how many coins of each type are there in the collection?

Solve each of the following problems algebraically (one variable solution).

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dimes : nickels :

Solve each of the following problems algebraically (one variable solution).

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dimes : nickels :

Solve each of the following problems algebraically (one variable solution).

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number dimes : nickels :

Solve each of the following problems algebraically (one variable solution).

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number dimes : nickels : x

Solve each of the following problems algebraically (one variable solution).

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number dimes : x + 5 nickels : x

Solve each of the following problems algebraically (one variable solution).

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number dimes : x + 5 nickels : x

Solve each of the following problems algebraically (one variable solution).

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- 1. **R**epresent all unknowns in terms of the same variable.
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- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.

Solve each of the following problems algebraically (one variable solution).

5. A collection of ordinary dimes and nickels is worth \$5. If the number of dimes is five more than the number of nickels, then how many coins of each type are there in the collection?

	number	value
dimes :	x + 5	
nickels :	X	

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.

¢

Solve each of the following problems algebraically (one variable solution).

	number	value ¢
dimes :	x + 5	10(
nickels :	X	

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.

Solve each of the following problems algebraically (one variable solution).

	number	value ¢
dimes :	x + 5	10(x+5)
nickels :	X	

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.

Solve each of the following problems algebraically (one variable solution).

	number	value ¢
dimes :	x + 5	10(x+5)
nickels :	X	5x

- 1. **R**epresent all unknowns in terms of the same variable.
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	number	value ¢
dimes :	x + 5	10(x+5)
nickels :	X	5 x

total value :

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.

Solve each of the following problems algebraically (one variable solution).

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	number	value ¢
dimes :	x + 5	10(x+5)
nickels :	X	<u> </u>

total value :

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.

Solve each of the following problems algebraically (one variable solution).

	number	value ¢
dimes :	x + 5	10(x + 5)
nickels :	X	5x
t	otal value :	500

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.

Solve each of the following problems algebraically (one variable solution).

5. A collection of ordinary dimes and nickels is worth \$5. If the number of dimes is five more than the number of nickels, then how many coins of each type are there in the collection? 10(x + 5)

numbervalue ϕ dimes :x + 510(x + 5)nickels :x5xtotal value :500

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.

Solve each of the following problems algebraically (one variable solution).

5. A collection of ordinary dimes and nickels is worth \$5. If the number of dimes is five more than the number of nickels, then how many coins of each type are there in the collection? 10(x + 5) +

numbervalue \not{c} dimes :x + 510(x + 5)nickels :x5xtotal value :500

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5. A collection of ordinary dimes and nickels is worth \$5. If the number of dimes is five more than the number of nickels, then how many coins of each type are there in the collection? 10(x + 5) + 5x

numbervalue \not{c} dimes :x + 510(x + 5)nickels :x5xtotal value :500

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
Solve each of the following problems algebraically (one variable solution).

5. A collection of ordinary dimes and nickels is worth \$5. If the number of dimes is five more than the number of nickels, then how many coins of each type are there in the collection? 10(x + 5) + 5x =

numbervalue \not{c} dimes :x + 510(x + 5)nickels :x5xtotal value :500

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Solve each of the following problems algebraically (one variable solution).

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value ¢ 10(x + 5) + 5x = 500 10(x + 5) 5x500

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.

number

total value :

 $\mathbf{x} + \mathbf{5}$

X

dimes :

nickels :

Solve each of the following problems algebraically (one variable solution).

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10(x+5) + 5x = 500value ¢ number $\mathbf{x} + \mathbf{5}$ 10(x + 5)**5**x total value : 500

- 1. **R**epresent all unknowns in terms of the same variable.
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dimes :

nickels :

X

Solve each of the following problems algebraically (one variable solution).

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10(x+5) + 5x = 500number value ¢ $\mathbf{x} + \mathbf{5}$ 10(x + 5)**5**x total value : 500

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.

dimes :

nickels :

X

3. **S**olve the equation.

Solve each of the following problems algebraically (one variable solution).

5. A collection of ordinary dimes and nickels is worth \$5. If the number of dimes is five more than the number of nickels, then how many coins of each type are there in the collection?

10(x+5) + 5x = 500value ¢ number **10x** 10(x + 5) $\mathbf{x} + \mathbf{5}$ **5**x 500 total value :

- 1. **R**epresent all unknowns in terms of the same variable.
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number value ¢ x + 5 10(x + 5) x 5x total value : 500 10(x + 5) + 5x = 50010x + 5x = 500

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.

dimes :

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3. Solve the equation.

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number value ¢ dimes : x + 5 10(x + 5) nickels : x 5x total value : 500 10(x + 5) + 5x = 50010x + 50

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 - 2. Write an Equation.
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Solve each of the following problems algebraically (one variable solution).

5. A collection of ordinary dimes and nickels is worth \$5. If the number of dimes is five more than the number of nickels, then how many coins of each type are there in the collection?

numbervalue $\not c$ dimes :x + 510(x + 5)nickels :x5x

10(x + 5) + 5x = 50010x + 50 +

total value : 500

- 1. **R**epresent all unknowns in terms of the same variable.
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10(x + 5) + 5x = 50010x + 50 + 5x

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number value ¢ dimes : x + 5 10(x + 5) nickels : x 5xtotal value : 500

10(x + 5) + 5x = 50010x + 50 + 5x = 500

- 1. **R**epresent all unknowns in terms of the same variable.
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 number
 value ¢
 10(x + 5) + 5x = 500

 dimes :
 x + 5 10(x + 5) 10x + 50 + 5x = 500

 nickels :
 x 5x 15x

 total value :
 500 15x

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
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Solve each of the following problems algebraically (one variable solution).

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 number
 value ¢
 10(x + 5) + 5x = 500

 dimes :
 x + 5 10(x + 5) 10x + 50 + 5x = 500

 nickels :
 x 5x 15x +

 total value :
 500 15x +

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. **Solve the equation**.

Solve each of the following problems algebraically (one variable solution).

5. A collection of ordinary dimes and nickels is worth \$5. If the number of dimes is five more than the number of nickels, then how many coins of each type are there in the collection?

numbervalue ¢10(x + 5) + 5x = 500dimes :x + 510(x + 5)10x + 50 + 5x = 500nickels :x5x15x + 50total value :50015x + 50

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
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- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. Solve the equation.

Solve each of the following problems algebraically (one variable solution).

t	otal value	: 500	15x
nickels :	X	5 x	15x + 50 = 500
dimes :	x + 5	10(x + 5)	10x + 50 + 5x = 500
	numher	value ¢	10(x+5) + 5x = 500

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.
- 3. **Solve the equation**.

Solve each of the following problems algebraically (one variable solution).

t	otal value	: 500	15x =
nickels :	X	5x	15x + 50 = 500
dimes :	x + 5	10(x + 5)	10x + 50 + 5x = 500
	numher	value ¢	10(x+5) + 5x = 500

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.
- 3. **Solve the equation**.

Solve each of the following problems algebraically (one variable solution).

to	otal value	: 500	15x = 450
nickels :	X	5 x	15x + 50 = 500
dimes :	x + 5	10(x+5)	10x + 50 + 5x = 500
	numher	value ¢	10(x+5) + 5x = 500

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.
- 3. **Solve the equation**.

Solve each of the following problems algebraically (one variable solution).

dimes : nickels :	number x + 5 x	value ¢ 10(x + 5) 5x	10(x + 5) + 5x = 500 10x + 50 + 5x = 500 15x + 50 = 500 15x = 450
t	otal value	: 500	15x = 450
			X

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.
- 3. **Solve the equation**.

Solve each of the following problems algebraically (one variable solution).

dimes : nickels :	number x + 5 x	value ¢ 10(x + 5) 5x	10(x + 5) + 5x = 500 $10x + 50 + 5x = 500$ $15x + 50 = 500$
t	otal value	: 500	15x = 450
			x =

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.
- 3. **Solve the equation**.

Solve each of the following problems algebraically (one variable solution).

dimes :	number x + 5	value ¢ 10(x + 5)	10(x + 5) + 5x = 500 $10x + 50 + 5x = 500$ $15x + 50 = 500$
nickels :	X	5x	15x + 50 = 500
t	otal value	: 500	15x = 450
			$\mathbf{x} = 30$

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.
- 3. **Solve the equation**.

Solve each of the following problems algebraically (one variable solution).

dimes : nickels :	number x + 5 x	value ¢ 10(x + 5) 5x	10(x + 5) + 5x = 500 $10x + 50 + 5x = 500$ $15x + 50 = 500$
t	otal value	: 500	15x = 450
			$\mathbf{x} = 30$

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. Solve the equation.
- 4. Answer the question (complete sentence).

Solve each of the following problems algebraically (one variable solution).

dimes :	number x + 5	value ¢ 10(x + 5)	10(x + 5) + 5x = 500 $10x + 50 + 5x = 500$ $15x + 50 = 500$
nickels : t	x otal value :	5x 500	15x + 50 = 500 15x = 450
			$\mathbf{x} = 30$
			$\mathbf{x} + 5$

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. Solve the equation.
- 4. Answer the question (complete sentence).

Solve each of the following problems algebraically (one variable solution).

dimes :	number x + 5	value ¢ 10(x + 5)	10(x + 5) + 5x = 500 $10x + 50 + 5x = 500$ $15x + 50 = 500$
nickels : t	x otal value :	5x 500	15x + 50 - 500 15x = 450
			$\mathbf{x} = 30$
			x + 5 =

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. Solve the equation.
- 4. Answer the question (complete sentence).

Solve each of the following problems algebraically (one variable solution).

dimes :	number x + 5	value ¢ 10(x + 5)	10(x + 5) + 5x = 500 $10x + 50 + 5x = 500$
nickels :	X	5x	15x + 50 = 500
total value		: 500	15x = 450
			$\mathbf{x} = 30$
			x + 5 = 35

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. Solve the equation.
- 4. Answer the question (complete sentence).

Solve each of the following problems algebraically (one variable solution).

dimas	number	value ϕ	10(x + 5) + 5x = 500 $10x + 50 + 5x = 500$	
nickels :	$\mathbf{X} + \mathbf{S}$ \mathbf{X}	$\frac{10(x+3)}{5x}$	15x + 50 = 500	
t	total value	: 500	15x = 450	
			$\mathbf{x} = 30$	There are 35 dimes
			x + 5 = 35	

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. Solve the equation.
- 4. Answer the question (complete sentence).

Solve each of the following problems algebraically (one variable solution).

	number	value ¢	10(x + 5) + 5x = 500 $10x + 50 + 5x = 500$	
dimes : nickels :	x + 5 x	10(x + 5) 5x	15x + 50 = 500	
	total value	: 500	15x = 450	
		-	$\mathbf{x} = 30$	There are 35 dimes
			x + 5 = 35	and 30 nickels.

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
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Solve each of the following problems algebraically (one variable solution).

dim og t	number	value ¢	10(x + 5) + 5x = 500 $10x + 50 + 5x = 500$	
nickels :	x + 5 x	10(x + 5) 5x	15x + 50 = 500	
1	total value :	: 500	15x = 450	
			$\mathbf{x} = 30$	There are 35 dimes
			x + 5 = 35	and 30 nickels.

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. Solve the equation.
- 4. Answer the question (complete sentence).
- 5. Check your solution.

Solve each of the following problems algebraically (one variable solution).

6. A collection of ordinary dimes and quarters is worth \$5. If the number of quarters is eight less than the number of dimes, then how many coins of each type are there in the collection?

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number

dimes :

quarters :

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number dimes : x quarters :

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number dimes : x quarters : x – 8
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- 2. Write an Equation.

Solve each of the following problems algebraically (one variable solution).

	number	value ø
dimes :	X	10x
quarters :	x – 8	

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.

Solve each of the following problems algebraically (one variable solution).

	number	value ¢
dimes :	X	10x
quarters :	x – 8	25(x-8)

- 1. **R**epresent all unknowns in terms of the same variable.
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Solve each of the following problems algebraically (one variable solution).

6. A collection of ordinary dimes and quarters is worth \$5. If the number of quarters is eight less than the number of dimes, then how many coins of each type are there in the collection?

numbervalue $\not c$ dimes :x10xquarters :x - 825(x - 8)

total value :

- 1. **R**epresent all unknowns in terms of the same variable.
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Solve each of the following problems algebraically (one variable solution).

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numbervalue ¢dimes :x10xquarters :x - 825(x - 8)total value :500

- 1. **R**epresent all unknowns in terms of the same variable.
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number value ¢ 10x dimes : x 10x quarters : x - 8 $\frac{25(x - 8)}{500}$

- 1. **R**epresent all unknowns in terms of the same variable.
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numbervalue \notin 10x + 25(x - 8) = 500dimes :x10x10x + 25x - 200 = 500quarters :x - 825(x - 8)10x + 25x - 200 = 500total value :500

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- 3. Solve the equation.

Solve each of the following problems algebraically (one variable solution).

	number	value ¢	10x + 25(x - 8) = 500
dimes :	X	10x	10x + 25x - 200 = 500
quarters :	x – 8	25(x-8)	35x - 200 = 500
to	otal value	: 500	35x

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.
- 3. **Solve the equation**.

Solve each of the following problems algebraically (one variable solution).

	number	value ¢	10x + 25(x - 8) = 500
dimes :	X	10x	10x + 25x - 200 = 500
quarters :	x – 8	25(x-8)	35x - 200 = 500
to	otal value	: 500	35x =

- 1. **R**epresent all unknowns in terms of the same variable.
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- 3. **Solve the equation**.

Solve each of the following problems algebraically (one variable solution).

	number	value ¢	10x + 25(x - 8) = 500
dimes :	X	10x	10x + 25x - 200 = 500
quarters :	x – 8	25(x-8)	35x - 200 = 500
to	otal value	: 500	35x = 700

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.
- 3. **Solve the equation**.

Solve each of the following problems algebraically (one variable solution).

	number	value ¢	10x + 25(x - 8) = 500
dimes :	X	10x	10x + 25x - 200 = 500
quarters :	x – 8	25(x-8)	35x - 200 = 500
total value : 500	: 500	35x = 700	
			X

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.
- 3. **Solve the equation**.

Solve each of the following problems algebraically (one variable solution).

	number	value ¢	10x + 25(x - 8) = 500
dimes :	X	10x	10x + 25x - 200 = 500
quarters :	x – 8	25(x-8)	35x - 200 = 500
t	otal value	: 500	35x = 700
			x =

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.
- 3. **Solve the equation**.

Solve each of the following problems algebraically (one variable solution).

	number	value ¢	10x + 25(x - 8) = 500
dimes :	X	10x	10x + 25x - 200 = 500
quarters :	x – 8	25(x-8)	35x - 200 = 500
te	otal value	: 500	35x = 700
			$\mathbf{x} = 20$

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.
- 3. **Solve the equation**.

Solve each of the following problems algebraically (one variable solution).

lue ϕ 10x + 25(x - 8	value ¢	number	
10x 10x + 25x - 20	10x	X	dimes :
(x-8) 35x - 200 =	5(x-8)	x - 8 = 2	quarters :
3500 $35x = 70$	500	tal value :	to
x = 20			

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.
- 3. Solve the equation.
- 4. Answer the question (complete sentence).

Solve each of the following problems algebraically (one variable solution).

	number	value ¢	10x + 25(x - 8) = 500
dimes :	X	10x	10x + 25x - 200 = 500
quarters :	x – 8	25(x-8)	35x - 200 = 500
t	otal value	: 500	35x = 700
			$\mathbf{x} = 20$
			x – 8

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.
- 3. Solve the equation.
- 4. Answer the question (complete sentence).

Solve each of the following problems algebraically (one variable solution).

dimes :	number x	value ¢ 10x	10x + 25(x - 8) = 500 $10x + 25x - 200 = 500$	
quarters :	x – 8	25(x-8)	35x - 200 = 500	
total value : 500			35x = 700	
			$\mathbf{x} = 20$	
			x - 8 =	

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. Solve the equation.
- 4. Answer the question (complete sentence).
Solve each of the following problems algebraically (one variable solution).

	number	value ¢	10x + 25(x - 8) = 500
dimes :	X	10x	10x + 25x - 200 = 500
quarters :	x – 8	25(x-8)	35x - 200 = 500
total value : 500			35x = 700
			$\mathbf{x} = 20$
			x - 8 = 12

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.
- 3. Solve the equation.
- 4. Answer the question (complete sentence).

Solve each of the following problems algebraically (one variable solution).

• •	number	value ¢	10x + 25(x - 8) = 500	
dimes :	X	10 x	10x + 25x - 200 = 500	
quarters :	x – 8	25(x-8)	35x - 200 = 500	
to	otal value	: 500	35x = 700	
			$\mathbf{x} = 20$	There are 20 dimes
			x - 8 = 12	

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. Solve the equation.
- 4. Answer the question (complete sentence).

Solve each of the following problems algebraically (one variable solution).

number value ¢	10x + 25(x - 8) = 500	
dimes : x 10x	10x + 25x - 200 = 500	
quarters: $x-8$ 25($x-8$)) 35x - 200 = 500	
total value : 500	35x = 700	
	$\mathbf{x} = 20$	There are 20 dimes
	x - 8 = 12	and 12 quarters.

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.
- 3. Solve the equation.
- 4. Answer the question (complete sentence).

Solve each of the following problems algebraically (one variable solution).

number valu	$e \notin 10x + 25(x - 8) = 500$	
dimes : x 10	x 10x + 25x - 200 = 500	
quarters: $x-8 = \frac{25(x-1)}{25(x-1)}$	$\frac{-8)}{35x-200} = 500$	
total value : 500	35x = 700	
	x = 20	There are 20 dimes
	x - 8 = 12	and 12 quarters.

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. Solve the equation.
- 4. Answer the question (complete sentence).
- 5. Check your solution.

Solve each of the following problems algebraically (one variable solution).

7. A collection of ordinary dimes and nickels is worth \$3.75. If the number of dimes is five less than twice the number of nickels, then how many coins of each type are there in the collection?

Solve each of the following problems algebraically (one variable solution).

7. A collection of ordinary dimes and nickels is worth \$3.75. If the number of dimes is five less than twice the number of nickels, then how many coins of each type are there in the collection?

dimes : nickels :

Solve each of the following problems algebraically (one variable solution).

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number dimes : nickels :

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number dimes : nickels : x

Solve each of the following problems algebraically (one variable solution).

7. A collection of ordinary dimes and nickels is worth \$3.75. If the number of dimes is five less than twice the number of nickels, then how many coins of each type are there in the collection?

number dimes : 2x nickels : x

Solve each of the following problems algebraically (one variable solution).

7. A collection of ordinary dimes and nickels is worth \$3.75. If the number of dimes is five less than twice the number of nickels, then how many coins of each type are there in the collection?

number dimes : 2x – 5 nickels : x

Solve each of the following problems algebraically (one variable solution).

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number dimes : 2x – 5 nickels : x

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number dimes : 2x – 5 nickels : x

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.

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	number	value
dimes :	2x - 5	
nickels :	X	

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.

¢

Solve each of the following problems algebraically (one variable solution).

7. A collection of ordinary dimes and nickels is worth \$3.75. If the number of dimes is five less than twice the number of nickels, then how many coins of each type are there in the collection?

numbervalue $\not c$ dimes :2x - 510(2x - 5)nickels :x

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.

Solve each of the following problems algebraically (one variable solution).

7. A collection of ordinary dimes and nickels is worth \$3.75. If the number of dimes is five less than twice the number of nickels, then how many coins of each type are there in the collection?

	number	value ¢	
dimes :	2x - 5	10(2x-5)	
nickels :	X	5 x	

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.

Solve each of the following problems algebraically (one variable solution).

7. A collection of ordinary dimes and nickels is worth \$3.75. If the number of dimes is five less than twice the number of nickels, then how many coins of each type are there in the collection?

numbervalue $\not c$ dimes :2x - 510(2x - 5)nickels :x5x

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.

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number value ¢ dimes : 2x-5 10(2x-5) nickels : x 5x total value : 375

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.

Solve each of the following problems algebraically (one variable solution).

7. A collection of ordinary dimes and nickels is worth \$3.75. If the number of dimes is five less than twice the number of nickels, then how many coins of each type are there in the collection? 10(2x - 5)

numbervalue \not{e} dimes :2x - 510(2x - 5)nickels :x5xtotal value :375

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.

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numbervalue \notin dimes :2x - 510(2x - 5)nickels :x5xtotal value :375

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.

Solve each of the following problems algebraically (one variable solution).

7. A collection of ordinary dimes and nickels is worth \$3.75. If the number of dimes is five less than twice the number of nickels, then how many coins of each type are there in the collection?

number value ¢ dimes : 2x-5 10(2x-5)nickels : x 5xtotal value : 375 10(2x-5)+5x

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.

Solve each of the following problems algebraically (one variable solution).

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- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.

number

X

dimes :

nickels :

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nickels :

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- 1. **R**epresent all unknowns in terms of the same variable.
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10(2x-5) + 5x = 375value ¢ **20**x **5**x total value : 375

number 2x-5 10(2x-5) dimes : nickels : X

- 2. Write an **E**quation.
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number value ¢ 2x-5 10(2x-5) x 5x total value \cdot 375

10(2x-5) + 5x = 37520x - 5x = 375

total value : 375

dimes :

nickels :

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number value ¢ dimes : 2x-5 10(2x - 5) nickels : x 5x 10(2x - 5) + 5x = 37520x - 50

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- 2. Write an Equation.
- 3. Solve the equation.

Solve each of the following problems algebraically (one variable solution).

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numbervalue \not{e} dimes :2x - 510(2x - 5)nickels :x5x

10(2x - 5) + 5x = 37520x - 50 +

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10(2x - 5) + 5x = 37520x - 50 + 5x

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numbervalue ¢10(2x-5) + 5x = 375dimes :2x-510(2x-5)20x-50 + 5x = 375nickels :x5x25xtotal value :37525x

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- 2. Write an **E**quation.
- 3. Solve the equation.

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	number	value ¢	10(2x - 5) + 5x = 375
dimes :	2x - 5	10(2x-5)	20x - 50 + 5x = 3/5
nickels :	X	5 x	25x –
ť	otal value	• 375	

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- 3. Solve the equation.

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numbervalue ¢10(2x-5) + 5x = 375dimes :2x-510(2x-5)20x-50 + 5x = 375nickels :x5x25x-50total value :375375

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- 2. Write an **E**quation.
- 3. Solve the equation.
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number value ¢ 2x - 510(2x-5)dimes : nickels : **5**x X total value : 375

10(2x-5) + 5x = 37520x - 50 + 5x = 37525x - 50 = 375

- 1. **R**epresent all unknowns in terms of the same variable.
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- 3. Solve the equation.

Solve each of the following problems algebraically (one variable solution).

dimes : nickels :	number 2x – 5 x	value ¢ 10(2x – 5) 5x	10(2x - 5) + 5x = 375 $20x - 50 + 5x = 375$ $25x - 50 = 375$	
t	otal value	: 375	25x	

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.
- 3. **Solve the equation**.

Solve each of the following problems algebraically (one variable solution).

dimes :	number 2x – 5	value ¢ 10(2x – 5)	10(2x - 5) + 5x = 375 $20x - 50 + 5x = 375$
nickels :	X	5 x	25x - 50 = 375
t	otal value	: 375	25x =

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.
- 3. **Solve the equation**.

Solve each of the following problems algebraically (one variable solution).

dimes :	number $2x - 5$	value ¢ 10(2x – 5)	10(2x - 5) + 5x = 375 $20x - 50 + 5x = 375$
nickels :	X	5x	25x - 50 = 375
t	otal value	: 375	25x = 425

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.
- 3. **Solve the equation**.

Solve each of the following problems algebraically (one variable solution).

dimes : nickels : f	number 2x – 5 x otal value	value ¢ 10(2x-5) 5x \cdot 375	10(2x - 5) + 5x = 375 $20x - 50 + 5x = 375$ $25x - 50 = 375$ $25x = 425$
·		• 010	X

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.
- 3. **Solve the equation**.

Solve each of the following problems algebraically (one variable solution).

dimes : nickels :	number 2x – 5 x	value ¢ 10(2x – 5) 5x	10(2x - 5) + 5x = 375 $20x - 50 + 5x = 375$ $25x - 50 = 375$	
t	otal value	25x = 425		
			x =	

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.
- 3. **Solve the equation**.

Solve each of the following problems algebraically (one variable solution).

dimes : nickels :	number 2x – 5 x	value ¢ 10(2x – 5) 5x	10(2x - 5) + 5x = 375 $20x - 50 + 5x = 375$ $25x - 50 = 375$	
total value : 375			25x = 425	
			x = 17	

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.
- 3. **Solve the equation**.

Solve each of the following problems algebraically (one variable solution).

dimes : nickels :	number 2x – 5 x	value ¢ 10(2x – 5) 5x	10(2x - 5) + 5x = 375 $20x - 50 + 5x = 375$ $25x - 50 = 375$	
total value : 375			25x = 425	
			x = 17	

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. Solve the equation.
- 4. Answer the question (complete sentence).

Solve each of the following problems algebraically (one variable solution).

dimes :	number 2x – 5	value ¢ 10(2x – 5)	10(2x - 5) + 5x = 375 $20x - 50 + 5x = 375$
nickels :	X	5x	25x - 50 = 375
total value		: 375	25x = 425
			x = 17
			2x - 5

- 1. **R**epresent all unknowns in terms of the same variable.
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Solve each of the following problems algebraically (one variable solution).

dimes :	number 2x – 5	value ¢ 10(2x – 5)	10(2x - 5) + 5x = 375 $20x - 50 + 5x = 375$
nickels :	X	5x	25x - 50 = 375
total value		: 375	25x = 425
			$\mathbf{x} = 17$
			2x - 5 =

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
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dimes :	number 2x – 5	value ¢ 10(2x – 5)	10(2x-5) + 5x = 375 $20x - 50 + 5x = 375$
nickels :	X	5x	25x - 50 = 375
total value		: 375	25x = 425
			x = 17
			2x - 5 = 29

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. Solve the equation.
- 4. Answer the question (complete sentence).

Solve each of the following problems algebraically (one variable solution).

	numher	value é	10(2x-5) + 5x = 375	
dimes :	2x-5	10(2x - 5)	20x - 50 + 5x = 375	
nickels :	X	5x	25x - 50 = 375	
t	otal value	: 375	25x = 425	
-			x = 17	There are 17 nickels
			2x - 5 = 29	

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. Solve the equation.
- 4. Answer the question (complete sentence).

Solve each of the following problems algebraically (one variable solution).

dimes •	number $2x - 5$	value ¢ 10(2x – 5)	10(2x - 5) + 5x = 375 $20x - 50 + 5x = 375$	
nickels :	2 X - 3 X	$\frac{10(2x-3)}{5x}$	25x - 50 = 375	
te	otal value	: 375	25x = 425	
			x = 17	There are 17 nickels
			2x - 5 = 29	and 29 dimes.

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. Solve the equation.
- 4. Answer the question (complete sentence).

Solve each of the following problems algebraically (one variable solution).

dimes : lickels : to	number value ϕ 2x - 5 $10(2x - 5)$		10(2x - 5) + 5x = 375 $20x - 50 + 5x = 375$	
nickels :	X	5x	25x - 50 = 375	
t	otal value	: 375	25x = 425	
			x = 17	There are 17 nickels
			2x - 5 = 29	and 29 dimes.

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. Solve the equation.
- 4. Answer the question (complete sentence).
- 5. Check your solution.

Solve each of the following problems algebraically (one variable solution).

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8. A collection of ordinary quarters and nickels has a total value of \$4. If there are 60 coins in the collection, then how many coins of each type are there?

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number quarters : X nickels : 60

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number quarters : x nickels : 60 –

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number quarters : x nickels : 60 – x

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Solve each of the following problems algebraically (one variable solution).

	number	value ¢
quarters :	X	
nickels :	60 - x	

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.

Solve each of the following problems algebraically (one variable solution).

	number	value ¢
quarters :	X	25x
nickels :	60 - x	

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.

Solve each of the following problems algebraically (one variable solution).

	number	value ¢
quarters :	X	25x
nickels :	60 - x	5(60 - x)

- 1. **R**epresent all unknowns in terms of the same variable.
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Solve each of the following problems algebraically (one variable solution).

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number value ¢ quarters : x 25xnickels : 60 - x 5(60 - x)total value :

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.

Solve each of the following problems algebraically (one variable solution).

	number	value ¢
quarters :	X	25x
nickels :	60 - x	5(60 - x)
t	otal value :	400

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.

Solve each of the following problems algebraically (one variable solution).

8. A collection of ordinary quarters and nickels has a total value of \$4. If there are 60 coins in the collection, then how many coins of each type are there?

25x

	number	value ¢
quarters	X	25x
nickels	60 - x	5(60 - x)
	total value :	400

- 1. **R**epresent all unknowns in terms of the same variable.
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	number	value ¢	
quarters :	X	25x	
nickels :	60 - x	5(60 - x)	
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number value ¢ quarters : x 25x nickels : 60 - x 5(60 - x)total value : 400 25x + 5(60 - x) = 25x + 5(7) = 25x

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- 3. **Solve the equation**.

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number value ¢ quarters : x 25xnickels : 60 - x 5(60 - x)total value : 400 25x + 5(60 - x) = 40025x

- 1. **R**epresent all unknowns in terms of the same variable.
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number value ¢ quarters : x 25x nickels : 60 - x 5(60 - x)total value : 400 25x + 5(60 - x) = 40025x + 300

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. Solve the equation.

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 number
 value ¢
 25x + 5(60 - x) = 400

 quarters :
 x
 25x 25x + 300 - 25x + 300 + 300 + 300 + 300 + 300 + 300 + 300 + 300 + 300 + 300 + 300

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 number
 value ¢
 25x + 5(60 - x) = 400

 quarters :
 x
 25x 25x + 300 - 5x

 nickels :
 60 - x 5(60 - x) 25x + 300 - 5x

 total value :
 400 400

- 1. **R**epresent all unknowns in terms of the same variable.
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 number
 value ¢
 25x + 5(60 - x) = 400

 quarters :
 x
 25x 25x + 300 - 5x =

 nickels :
 60 - x 5(60 - x) 25x + 300 - 5x =

 total value :
 400 400

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numbervalue ¢25x + 5(60 - x) = 400quarters :x25x25x + 300 - 5x = 400nickels :60 - x5(60 - x)400

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- 3. **Solve the equation**.

Solve each of the following problems algebraically (one variable solution).

8. A collection of ordinary quarters and nickels has a total value of \$4. If there are 60 coins in the collection, then how many coins of each type are there?

numbervalue ¢25x + 5(60 - x) = 400quarters :x25x25x + 300 - 5x = 400nickels :60 - x5(60 - x)20xtotal value :40020x

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.
- 3. **Solve the equation**.

Solve each of the following problems algebraically (one variable solution).

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numbervalue ¢25x + 5(60 - x) = 400quarters :x25x25x + 300 - 5x = 400nickels :60 - x5(60 - x)20x + 300 - 5x = 400total value :400400400

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.
- 3. **Solve the equation**.

Solve each of the following problems algebraically (one variable solution).

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numbervalue ¢25x + 5(60 - x) = 400quarters :x25x25x + 300 - 5x = 400nickels :60 - x5(60 - x)20x + 300total value :40020x + 300

- 1. **R**epresent all unknowns in terms of the same variable.
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- 3. **Solve the equation**.

Solve each of the following problems algebraically (one variable solution).

8. A collection of ordinary quarters and nickels has a total value of \$4. If there are 60 coins in the collection, then how many coins of each type are there?

numbervalue ¢25x + 5(60 - x) = 400quarters :x25xnickels :60 - x5(60 - x)total value :400

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.
- 3. **Solve the equation**.

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	numbor	voluo d	25x + 5(60 - x) = 400
auarters :	x	25x	25x + 300 - 5x = 400
nickels :	60 – x	5(60 - x)	20x + 300 = 400
to	otal value :	400	20 x

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	numbau	walwa d	25x + 5(60 - x) = 400
auarters :	number X	value φ 25x	25x + 300 - 5x = 400
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	numbor	voluo d	25x + 5(60 - x) = 400
quarters :	number X	value ¢ 25x	25x + 300 - 5x = 400
nickels :	60 – x	5(60 - x)	20x + 300 = 400
t	otal value :	400	20x = 100

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numbervalue ¢25x + 5(60 - x) = 400quarters :x25xnickels :60 - x5(60 - x)total value :40020x + 300 = 400x = 520x = 100

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.
- 3. **Solve the equation**.

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numbervalue ¢25x + 5(60 - x) = 400quarters :x25xnickels :60 - x5(60 - x)total value :40020x + 300 = 400x = 520x = 100

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. Solve the equation.
- 4. Answer the question (complete sentence).

Solve each of the following problems algebraically (one variable solution).

8. A collection of ordinary quarters and nickels has a total value of \$4. If there are 60 coins in the collection, then how many coins of each type are there?

numbervalue \not{e} 25x + 5(60 - x) = 400quarters :x25xnickels :60 - x5(60 - x)total value :40020x + 300 = 40020x = 100x = 560 - x

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. Solve the equation.
- 4. Answer the question (complete sentence).

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- 1. **R**epresent all unknowns in terms of the same variable.
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numbervalue \not{e} 25x + 5(60 - x) = 400quarters :x25xnickels :60 - x5(60 - x)total value :40020x + 300 = 40020x = 100x = 560 - x = 55

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. Solve the equation.
- 4. Answer the question (complete sentence).

Solve each of the following problems algebraically (one variable solution).

quarters : nickels :	number x 60 – x	value ¢ 25x 5(60 - x)	25x + 5(60 - x) = 400 $25x + 300 - 5x = 400$ $20x + 300 = 400$ $20x = 100$	
to	otal value :	400	204 100	
			$\mathbf{x} = 5$	There are 5 quarters
			60 - x = 55	

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an **E**quation.
- 3. Solve the equation.
- 4. Answer the question (complete sentence).

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quarters : nickels :	number x 60 – x	value ¢ 25x 5(60 – x)	25x + 5(60 - x) = 400 $25x + 300 - 5x = 400$ $20x + 300 = 400$ $20x = 100$	
to	otal value :	400	202 100	
			x = 5	There are 5 quarters
			60 - x = 55	and 55 nickels.

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. Solve the equation.
- 4. Answer the question (complete sentence).

Solve each of the following problems algebraically (one variable solution).

quarters : nickels :	number x 60 – x	value ¢ 25x 5(60 – x)	25x + 5(60 - x) = 400 $25x + 300 - 5x = 400$ $20x + 300 = 400$	
te	otal value :	400	20x = 100	
			x = 5 60 - $x = 55$	There are 5 quarters and 55 nickels.
			$\mathbf{U}\mathbf{V}$ \mathbf{A} $\mathbf{J}\mathbf{J}$	

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. Solve the equation.
- 4. Answer the question (complete sentence).
- 5. Check your solution.

Solve each of the following problems algebraically (one variable solution).

number value ¢ quarters : x $25x$ nickels : $60 - x$ $5(60 - x)$ total value : 400	25x + 5(60 - x) = 400 $25x + 300 - 5x = 400$ $20x + 300 = 400$ $20x = 100$				
	x = 5	There are 5 quarters			
Good luck on your homework.					

- 1. **R**epresent all unknowns in terms of the same variable.
- 2. Write an Equation.
- 3. Solve the equation.
- 4. Answer the question (complete sentence).
- 5. Check your solution.